

# Indiana Maternal and Child Health Outcomes and Performance Measures Data Book

## State and Selected County Data 1995-2004

(Published July 2007)

Indiana State Department of Health  
Epidemiology Resource Center  
Data Analysis Team  
2 North Meridian Street, 3-D  
Indianapolis, Indiana 46204

For questions about this report, call: 317.233.7349  
or e-mail

[data-analysis@isdh.IN.gov](mailto:data-analysis@isdh.IN.gov)

## Indiana State Department of Health

Judith A. Monroe, MD, *State Health Commissioner*  
Mary L. Hill, RN, Esq., *Deputy State Health Commissioner*

## Epidemiology Resource Center (ERC)

Robert Teclaw, DVM, MPH, PhD, *Director*

## ERC Data Analysis Team

Jon E. Lewis, PhD, *Director*

## Contributing Staff

Susan Dorrell, BS  
Kristy Holzhausen  
Atossa Rahmanifar, PhD, RD  
Michele Starkey, BS  
Linda Stemnock, BSPH

The Epidemiology Resource Center gratefully acknowledges the efforts of the ISDH Vital Records Division, hospitals, local health departments, physicians, coroners, and other organizations that make the Indiana State Department of Health vital statistics system possible.

# Table of Contents

## Preface

## List of Charts and Tables

- Infant Mortality Rates by Race, Indiana Residents, 1995-2004
- Infant Mortality Rates by Race, Allen County Residents, 1995-2004
- Infant Mortality Rates by Race, Elkhart County Residents, 1995-2004
- Infant Mortality Rates by Race, Lake County Residents, 1995-2004
- Infant Mortality Rates by Race, Marion County Residents, 1995-2004
- Infant Mortality Rates by Race, St. Joseph County Residents, 1995-2004
- Infant Mortality Rates by Race, Vanderburgh County Residents, 1995-2004
- Infant Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates, Indiana Residents, 1995-2004
- Neonatal Mortality Rates by Race, Indiana Residents, 1995-2004
- Neonatal Mortality Rates by Race, Allen County Residents, 1995-2004
- Neonatal Mortality Rates by Race, Elkhart County Residents, 1995-2004
- Neonatal Mortality Rates by Race, Lake County Residents, 1995-2004
- Neonatal Mortality Rates by Race, Marion County Residents, 1995-2004
- Neonatal Mortality Rates by Race, St. Joseph County Residents, 1995-2004
- Neonatal Mortality Rates by Race, Vanderburgh County Residents, 1995-2004
- Neonatal Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates, Indiana Residents, 1995-2004
- Postneonatal Mortality Rates by Race, Indiana Residents, 1995-2004
- Postneonatal Mortality Rates by Race, Allen County Residents, 1995-2004
- Postneonatal Mortality Rates by Race, Elkhart County Residents, 1995-2004
- Postneonatal Mortality Rates by Race, Lake County Residents, 1995-2004
- Postneonatal Mortality Rates by Race, Marion County Residents, 1995-2004
- Postneonatal Mortality Rates by Race, St. Joseph County Residents, 1995-2004
- Postneonatal Mortality Rates by Race, Vanderburgh County Residents, 1995-2004
- Postneonatal Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates, Indiana Residents, 1995-2004

- Perinatal Mortality Rates by Race, Indiana Residents, 1995-2004
  - Fetal Mortality Rates by Race, Indiana Residents, 1995-2004
  - Number of SIDS Deaths, Indiana Residents, All Races, 1995-2004
- 
- Mortality Rates for Youths Aged 1-14 Years, by Race, Indiana Residents, 1995-2004
  - Motor Vehicle Injury Mortality Rates Among Youths Aged 1-14 Years, by Race, Indiana Residents, 1995-2004
- 
- Mortality Rates for Youths Aged 1-4 Years, by Race, Indiana Residents, 1995-2004
  - Mortality Rates for Youths Aged 5-9 Years, by Race, Indiana Residents, 1995-2004
  - Mortality Rates for Youths Aged 10-14 Years, by Race, Indiana Residents, 1995-2004
  - Mortality Rates for Youths Aged 15-19 Years, by Race, Indiana Residents, 1995-2004
  - Mortality Rates for Young Adults Aged 20-21 Years, by Race, Indiana Residents, 1995-2004
- 
- Suicide Mortality Rates Among Youths Aged 15-19 Years, by Race, Indiana Residents, 1995-2004
  - Homicide Mortality Rates Among Those Aged 15-24 Years, by Race, Indiana Residents, 1995-2004
  - Maternal Mortality Rates by Race, Indiana Residents, 1995-2004
- 
- Number of Occurrent Live Births by Race and Ethnicity, Indiana, 1995-2004
  - Number of Resident Live Births by Race and Ethnicity, Indiana, 1995-2004
- 
- The 4:3:1 Immunization of Two-Year-Olds in Indiana, National Immunization Survey, CDC
  - The 4:3:1:3 Immunization of Two-Year-Olds in Indiana, National Immunization Survey, CDC
- 
- Age-Specific Birth Rates, Females Aged 15-17 Years, Indiana Residents, 1995-2004
  - Age-Specific Birth Rates, Females Aged 15-17 Years, Allen County Residents, 1995-2004
  - Age-Specific Birth Rates, Females Aged 15-17 Years, Elkhart County Residents, 1995-2004
  - Age-Specific Birth Rates, Females Aged 15-17 Years, Lake County Residents, 1995-2004
  - Age-Specific Birth Rates, Females Aged 15-17 Years, Marion County Residents, 1995-2004
  - Age-Specific Birth Rates, Females Aged 15-17 Years, St. Joseph County Residents, 1995-2004
  - Age-Specific Birth Rates, Females Aged 15-17 Years, Vanderburgh County Residents, 1995-2004
- 
- Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race, Indiana Residents, 1995-2004

- Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race, Allen County Residents, 1995-2004
  - Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race, Elkhart County Residents, 1995-2004
  - Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race, Lake County Residents, 1995-2004
  - Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race, Marion County Residents, 1995-2004
  - Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race, St. Joseph County Residents, 1995-2004
  - Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race, Vanderburgh County Residents, 1995-2004
- 
- Prenatal Care Utilization (Kotelchuck) Index, All Races, Indiana Residents, 1995-2004
  - Prenatal Care Utilization (Kotelchuck) Index, White Population, Indiana Residents, 1995-2004
  - Prenatal Care Utilization (Kotelchuck) Index, Black Population, Indiana Residents, 1995-2004
  - Percent of Mothers Who Breastfed Their Infants at Hospital Discharge, by Race, Indiana Residents, 1995-2004
- 
- Percent of Low Birthweight Infants by Race, Indiana Residents, 1995-2004
  - Percent of Low Birthweight Infants by Race, Allen County Residents, 1995-2004
  - Percent of Low Birthweight Infants by Race, Elkhart County Residents, 1995-2004
  - Percent of Low Birthweight Infants by Race, Lake County Residents, 1995-2004
  - Percent of Low Birthweight Infants by Race, Marion County Residents, 1995-2004
  - Percent of Low Birthweight Infants by Race, St. Joseph County Residents, 1995-2004
  - Percent of Low Birthweight Infants by Race, Vanderburgh County Residents, 1995-2004
- 
- Percent of Very Low Birthweight Infants by Race, Indiana Residents, 1995-2004
  - Percent of Very Low Birthweight Infants by Race, Allen County Residents, 1995-2004
  - Percent of Very Low Birthweight Infants by Race, Elkhart County Residents, 1995-2004
  - Percent of Very Low Birthweight Infants by Race, Lake County Residents, 1995-2004
  - Percent of Very Low Birthweight Infants by Race, Marion County Residents, 1995-2004
  - Percent of Very Low Birthweight Infants by Race, St. Joseph County Residents, 1995-2004
  - Percent of Very Low Birthweight Infants by Race, Vanderburgh County Residents, 1995-2004

- Percent of Births to Mothers Who Smoked During Pregnancy, by Race, Indiana Residents, 1995-2004
  - Percent of Births to Mothers Who Smoked During Pregnancy, by Race, Allen County Residents, 1995-2004
  - Percent of Births to Mothers Who Smoked During Pregnancy, by Race, Elkhart County Residents, 1995-2004
  - Percent of Births to Mothers Who Smoked During Pregnancy, by Race, Lake County Residents, 1995-2004
  - Percent of Births to Mothers Who Smoked During Pregnancy, by Race, Marion County Residents, 1995-2004
  - Percent of Births to Mothers Who Smoked During Pregnancy, by Race, St. Joseph County Residents, 1995-2004
  - Percent of Births to Mothers Who Smoked During Pregnancy, by Race, Vanderburgh County Residents, 1995-2004
- 
- Percent of Preterm Births by Race, Indiana Residents, 1995-2004
  - Percent of Preterm Births by Race, Allen County Residents, 1995-2004
  - Percent of Preterm Births by Race, Elkhart County Residents, 1995-2004
  - Percent of Preterm Births by Race, Lake County Residents, 1995-2004
  - Percent of Preterm Births by Race, Marion County Residents, 1995-2004
  - Percent of Preterm Births by Race, St. Joseph County Residents, 1995-2004
  - Percent of Preterm Births by Race, Vanderburgh County Residents, 1995-2004
- 
- Live Births by County of Residence, Indiana Residents, 1995-2004, Total Population

## **County Rankings for 10 Years Combined:**

- Infant Mortality Rates, All Races, Indiana Residents, 1995-2004
  - Infant Mortality Rates, White, Indiana Residents, 1995-2004
  - Infant Mortality Rates, Black, Indiana Residents, 1995-2004
- 
- Neonatal Mortality Rates, All Races, Indiana Residents, 1995-2004
  - Neonatal Mortality Rates, White, Indiana Residents, 1995-2004
  - Neonatal Mortality Rates, Black, Indiana Residents, 1995-2004
- 
- Postneonatal Mortality Rates, All Races, Indiana Residents, 1995-2004
  - Postneonatal Mortality Rates, White, Indiana Residents, 1995-2004

- Postneonatal Mortality Rates, Black, Indiana Residents, 1995-2004
- Prenatal Care Began in First Trimester, All Races, Indiana Residents, 1995-2004
- Prenatal Care Began in First Trimester, White, Indiana Residents, 1995-2004
- Prenatal Care Began in First Trimester, Black, Indiana Residents, 1995-2004
- Low Birthweight, All Races, Indiana Residents, 1995-2004
- Low Birthweight, White, Indiana Residents, 1995-2004
- Low Birthweight, Black, Indiana Residents, 1995-2004
- Very Low Birthweight, All Races, Indiana Residents, 1995-2004
- Very Low Birthweight, White, Indiana Residents, 1995-2004
- Very Low Birthweight, Black, Indiana Residents, 1995-2004

## **Glossary of Terms**

## Preface

*The Indiana Maternal and Child Health Outcomes and Performance Measures Data Book, 1995-2004*, provides a summary of data relating to pregnancy, birth, and mortality in Indiana and selected counties for the years 1995-2004.

Information for this report was obtained from birth and death certificates filed with the Indiana State Department of Health (ISDH) and from transcripts of original certificates for Indiana residents giving birth in other states. The ISDH Epidemiology Resource Center Data Analysis Team compiled these data to produce this report.

Some of the data from 1995-1997 have been updated due to revisions to population estimates by the U.S. Census Bureau. Also, slight changes have been made to all of the prenatal care data in this report due to recalculation and standardization.

Mortality rates for 2001 were calculated using the 2000 U.S. Census Bureau's population data, because the 2001 population estimates had not been released at the time of publication of the *2001 Mortality Report*.

Indiana currently uses the 1977 Office of Management and Budget (OMB) standards for collecting data on race and ethnicity. These standards are in use by all states who have not yet revised their birth certificates to meet the 1997 OMB standards for collecting race and ethnicity information. The 1977 standards are also the standards used by the National Vital Statistics System for national reporting. The relationship between these two OMB standards and the terms used to report race and ethnicity in this report are as follows:

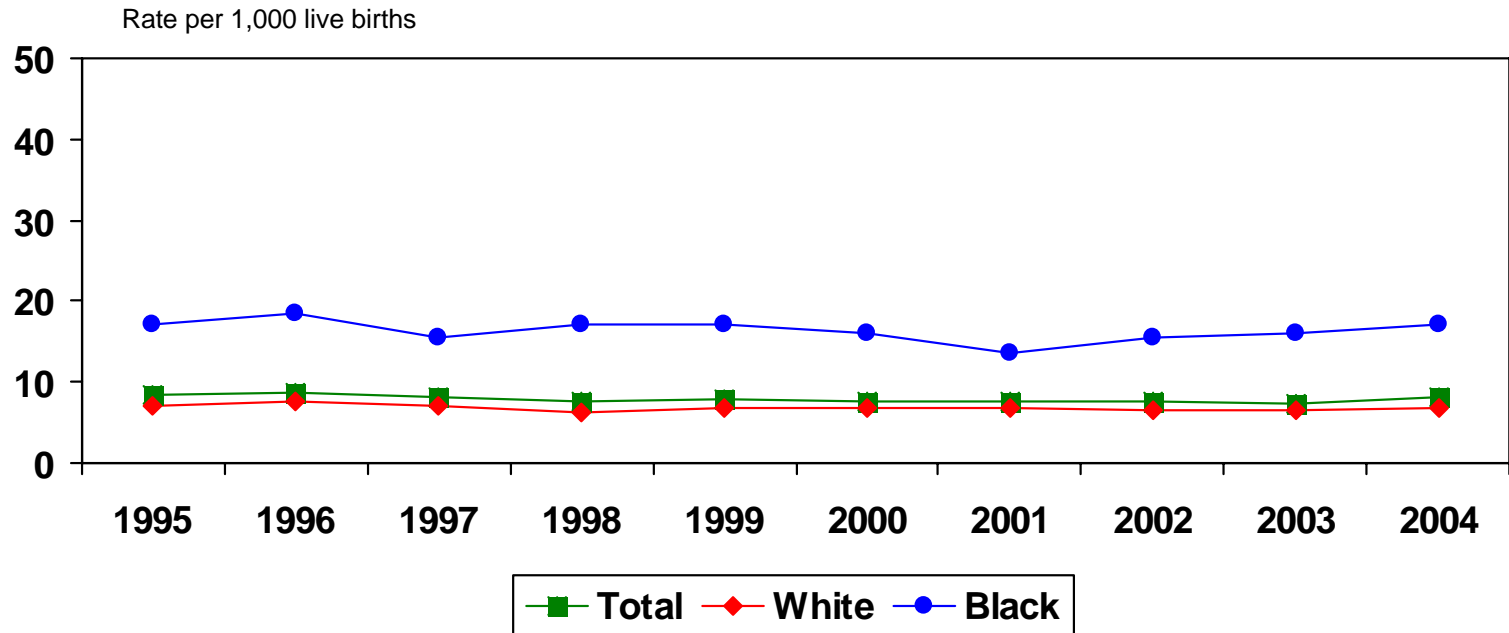
Race		
<u>1997 OMB standards</u>	<u>1977 OMB standards</u>	<u>This Report</u>
American Indian or Alaska Native	American Indian or Alaska Native	Included in Other
Asian	Asian or Pacific Islander	Included in Other
Black or African American	Black	Black
Native Hawaiian or Other Pacific Islander	Asian or Pacific Islander	Included in Other
White	White	White

Ethnicity		
<u>1997 OMB standards</u>	<u>1977 OMB standards</u>	<u>This Report</u>
Hispanic or Latino	Hispanic	Hispanic
not Hispanic or Latino	non-Hispanic	non-Hispanic

Most tables in this report will print on one page (8.5" x 11") if margins are set to 0.25" in all dimensions and the tables are viewed at the smallest font size.

# Infant Mortality Rates by Race

## Indiana Residents, 1995-2004



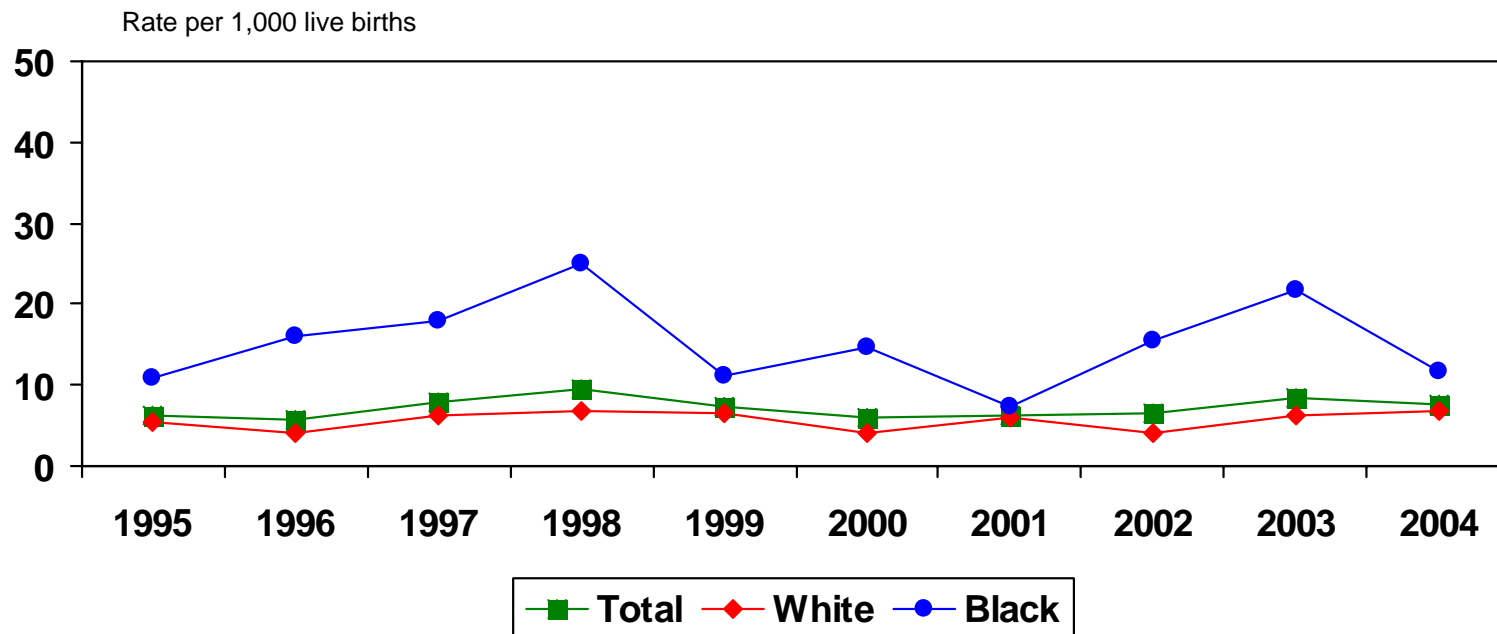
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	8.3	8.7	8.1	7.5	7.8	7.7	7.6	7.6	7.4	8.1
White	7.2	7.5	7.2	6.3	6.8	6.7	6.8	6.5	6.4	6.9
Black	17.0	18.4	15.6	17.1	17.0	15.9	13.6	15.6	15.9	17.1

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Infant Mortality Rates by Race

## Allen County Residents, 1995-2004



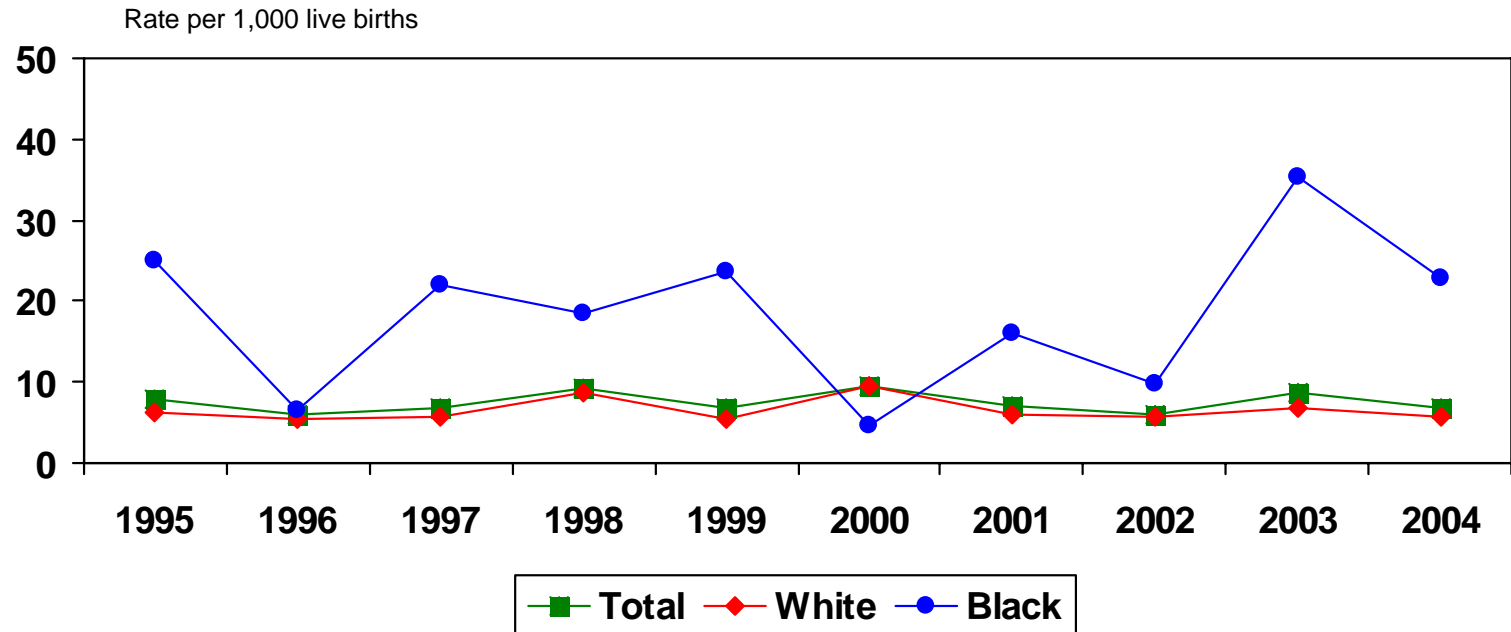
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	6.3	5.6	8.0	9.5	7.3	6.1	6.3	6.6	8.4	7.7
White	5.4	4.0*	6.3	6.7	6.6	4.2*	6.1	4.2*	6.2	6.8
Black	10.9*	16.0*	17.9*	25.1*	11.1*	14.8*	7.4*	15.6*	21.8*	11.7*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Infant Mortality Rates by Race

## Elkhart County Residents, 1995-2004



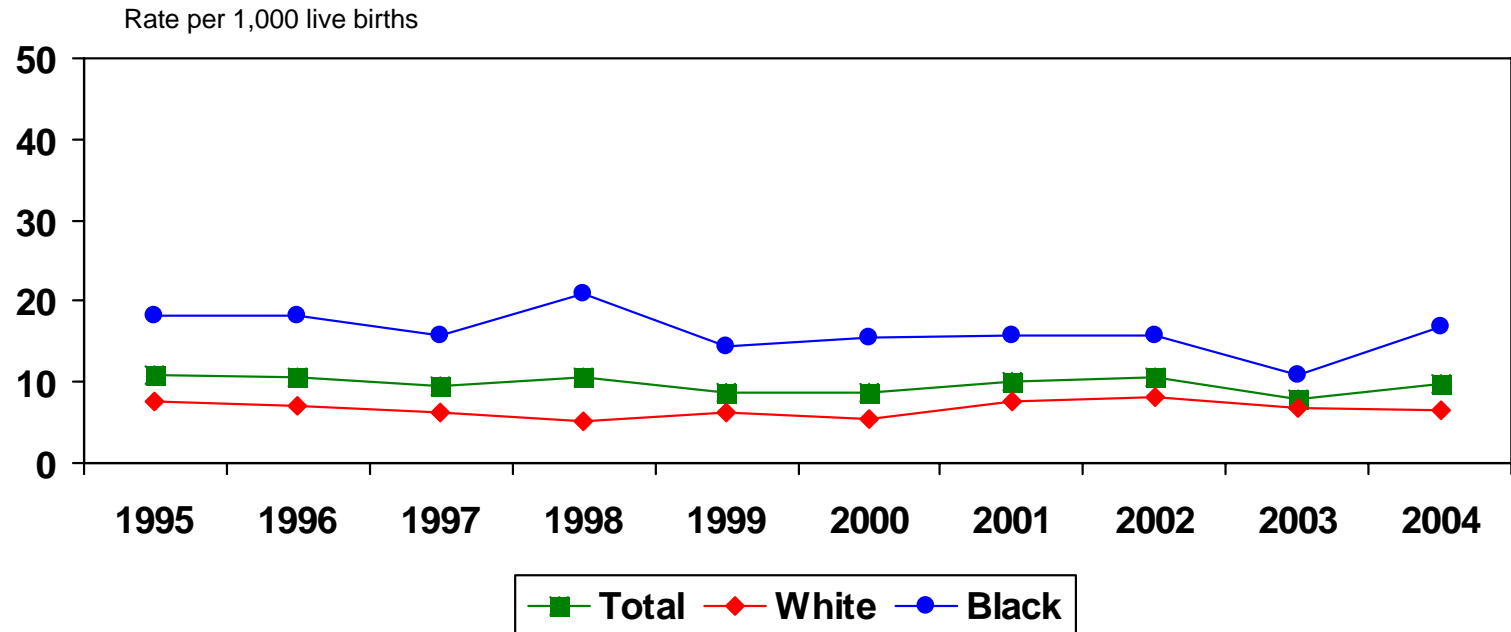
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	8.0	5.9*	6.9	9.3	6.7	9.4	7.0	6.0*	8.8	6.8
White	6.3*	5.5*	5.6*	8.8	5.5*	9.5	5.9*	5.8*	6.8	5.7*
Black	25.0*	6.5*	22.0*	18.5*	23.7*	4.7*	16.1*	9.9*	35.4*	22.9*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Infant Mortality Rates by Race

## Lake County Residents, 1995-2004

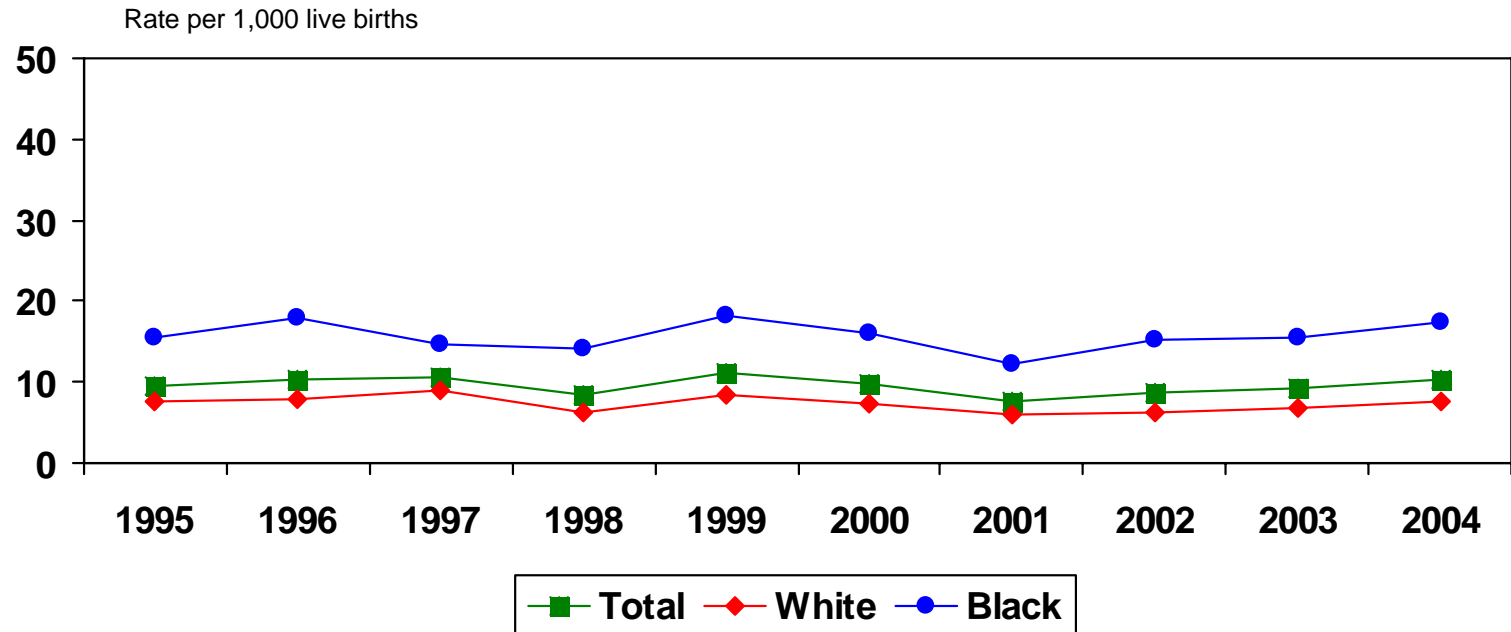


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	10.9	10.5	9.4	10.7	8.8	8.7	10.1	10.6	7.9	9.9
White	7.5	7.1	6.2	5.1	6.2	5.5	7.6	8.1	6.7	6.6
Black	18.1	18.3	15.7	20.9	14.4	15.5	15.7	15.7	10.9	16.9

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Infant Mortality Rates by Race

## Marion County Residents, 1995-2004

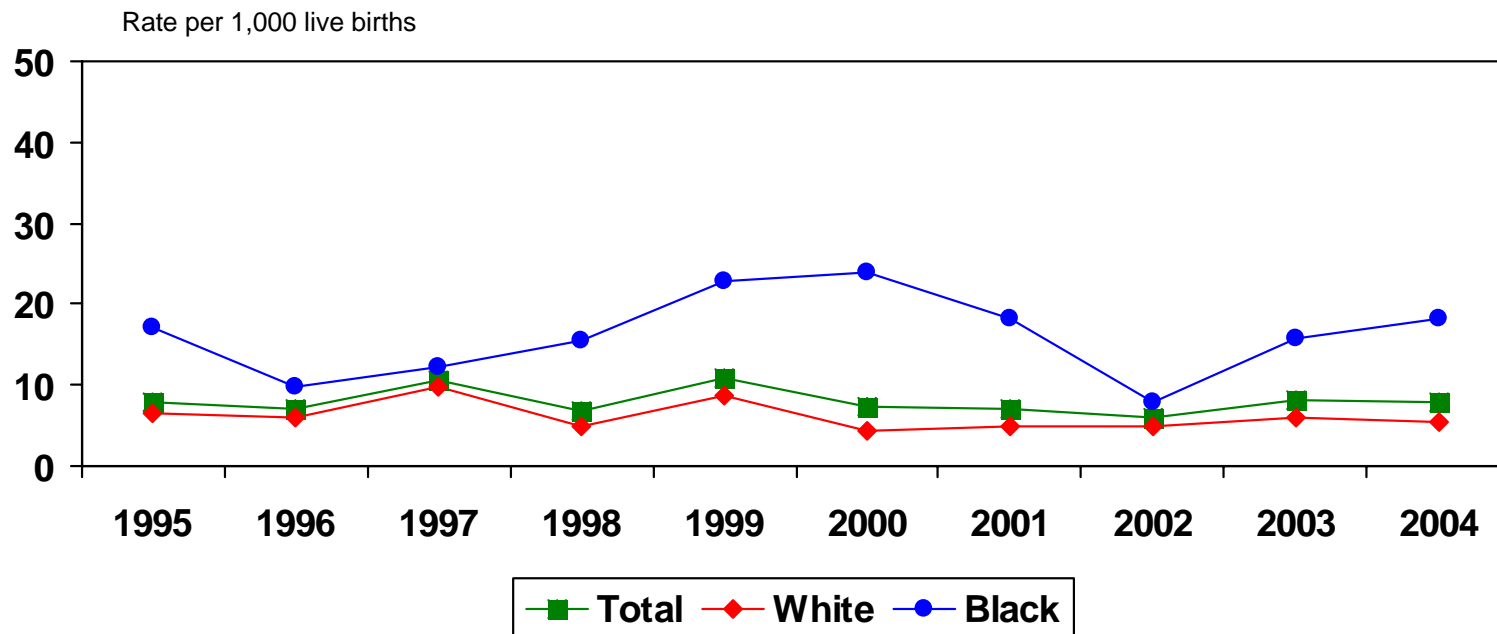


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	9.5	10.3	10.6	8.3	11.1	9.9	7.7	8.6	9.2	10.2
White	7.6	7.8	9.1	6.2	8.4	7.4	5.9	6.2	6.7	7.5
Black	15.6	17.9	14.7	14.1	18.2	15.9	12.3	15.3	15.4	17.3

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Infant Mortality Rates by Race

## St. Joseph County Residents, 1995-2004



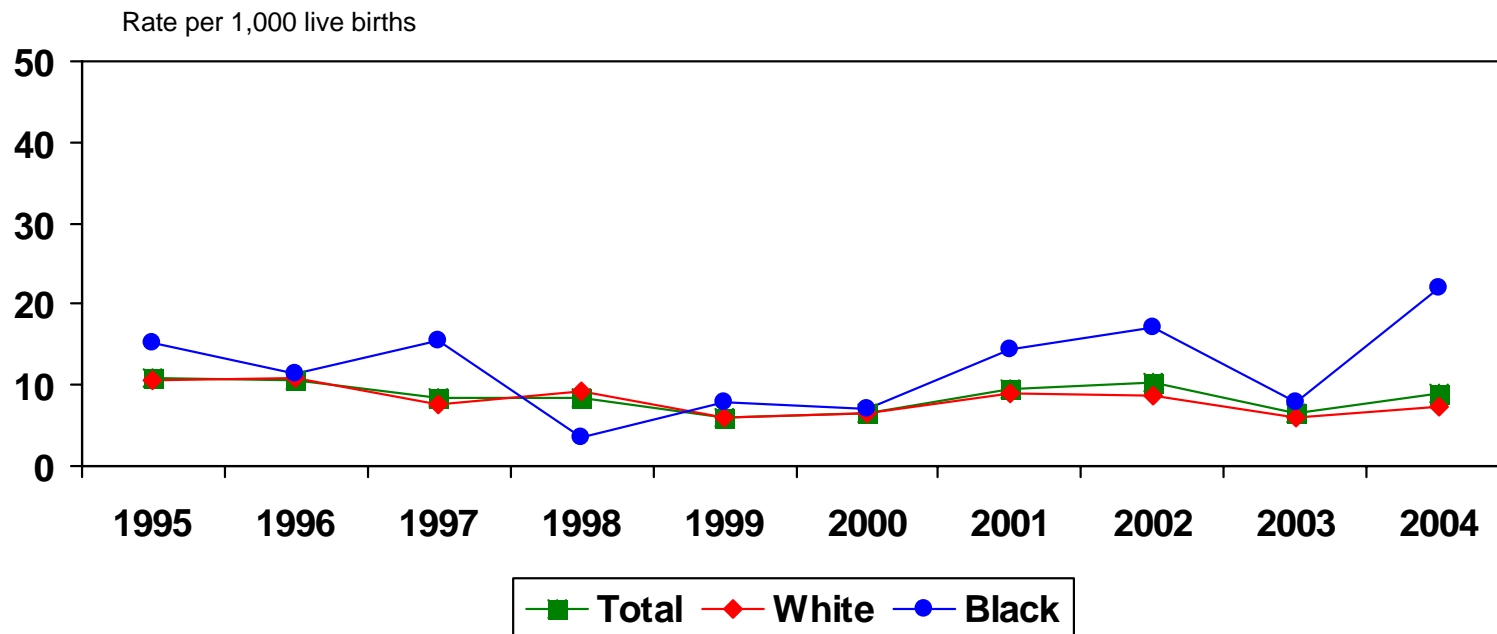
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	8.0	7.1	10.6	6.8	10.8	7.3	7.0	6.1	8.1	7.8
White	6.4	6.1*	9.9	4.9*	8.8	4.3*	4.8*	5.0*	6.1*	5.5*
Black	17.2*	9.9*	12.3*	15.5*	22.7*	23.8*	18.1*	7.9*	15.7*	18.3*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Infant Mortality Rates by Race

## Vanderburgh County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	10.9	10.7	8.3*	8.4*	6.1*	6.4*	9.6	10.4	6.4*	8.9
White	10.5	10.8	7.5*	9.2*	6.0*	6.5*	9.1*	8.6*	5.9*	7.4*
Black	15.2*	11.5*	15.4*	3.6*	7.8*	7.0*	14.3*	17.2*	8.0*	22.1*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

**Infant Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates  
Indiana Residents, 1995-2004**

	1995		1996		1997		1998		1999		2000		2001		2002		2003		2004	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
INDIANA	685	8.3	724	8.7	675	8.1	641	7.5	671	7.8	676	7.7	652	7.6	649	7.6	641	7.4	702	8.1
White	526	7.2	550	7.5	526	7.2	468	6.3	506	6.8	511	6.7	514	6.8	479	6.5	479	6.4	522	6.9
Black	149	17.0	161	18.4	136	15.6	158	17.1	157	17.0	150	15.9	130	13.6	144	15.6	148	15.9	164	17.1
Ratio		2.4		2.5		2.2		2.7		2.5		2.4		2.0		2.4		2.5		2.5
ALL RACES	319	9.1	312	9.0	330	8.7	314	8.9	334	9.4	313	8.0	286	8.0	296	8.1	307	8.1	334	8.6
Allen	31	6.3	27	5.6	40	8.0	48	9.5	37	7.3	32	6.1	34	6.3	34	6.6	44	8.4	41	7.7
Elkhart	22	8.0	16	5.9	20	6.9	28	9.3	21	6.7	31	9.4	22	7.0	18	6.0	28	8.8	22	6.8
Lake	80	10.9	75	10.5	65	9.4	76	10.7	62	8.8	61	8.7	70	10.1	72	10.6	55	7.9	69	9.9
Marion	132	9.5	143	10.3	147	10.6	116	8.3	158	11.1	145	9.9	111	7.7	125	8.6	135	9.2	151	10.2
St. Joseph	30	8.0	27	7.1	40	10.6	27	6.8	42	10.8	29	7.3	27	7.0	23	6.1	30	8.1	30	7.8
Vanderburgh	24	10.9	24	10.7	18	8.3	19	8.4	14	6.1	15	6.4	22	9.6	24	10.4	15	6.4	21	8.9
WHITE	192	7.2	182	6.9	206	7.8	171	6.4	197	7.3	176	6.2	171	6.6	166	6.3	177	6.4	188	6.6
Allen	22	5.4	16	4.0	26	6.3	28	6.7	28	6.6	18	4.2	27	6.1	18	4.2	27	6.2	30	6.8
Elkhart	16	6.3	14	5.5	15	5.6	24	8.8	16	5.5	29	9.5	17	5.9	16	5.8	20	6.8	17	5.7
Lake	37	7.5	34	7.1	29	6.2	24	5.1	29	6.2	26	5.5	35	7.6	37	8.1	31	6.7	31	6.6
Marion	77	7.6	78	7.8	91	9.1	61	6.2	84	8.4	76	7.4	59	5.9	63	6.2	69	6.7	78	7.5
St. Joseph	20	6.4	19	6.1	31	9.9	16	4.9	28	8.8	14	4.3	15	4.8	15	5.0	18	6.1	17	5.5
Vanderburgh	20	10.5	21	10.8	14	7.5	18	9.2	12	6.0	13	6.5	18	9.1	17	8.6	12	5.9	15	7.4
BLACK	123	16.1	126	16.7	116	15.3	136	17.0	133	16.6	128	13.6	110	14.0	118	13.6	121	17.9	140	18.2
Allen	8	10.9	11	16.0	14	17.9	19	25.1	8	11.1	11	14.8	6	7.4	11	15.6	16	21.8	9	11.7
Elkhart	4	25.0	1	6.5	4	22.0	4	18.5	5	23.7	1	4.7	3	16.1	2	9.9	7	35.4	5	22.9
Lake	42	18.1	41	18.3	34	15.7	49	20.9	33	14.4	35	15.5	35	15.7	34	15.7	24	10.9	37	16.9
Marion	55	15.6	64	17.9	53	14.7	53	14.1	71	18.2	64	15.9	50	12.3	61	15.3	62	15.4	71	17.3
St. Joseph	10	17.2	6	9.9	7	12.3	10	15.5	14	22.7	15	23.8	12	18.1	5	7.9	10	15.7	12	18.3
Vanderburgh	4	15.2	3	11.5	4	15.4	1	3.6	2	7.8	2	7.0	4	14.3	5	17.2	2	8.0	6	22.1
RATIO																				
Allen		2.0		4.0		2.8		3.7		1.7		3.6		1.2		3.7		3.5		1.7
Elkhart		4.0		1.2		3.9		2.1		4.3		0.5		2.7		1.7		5.2		4.0
Lake		2.4		2.6		2.5		4.1		2.3		2.8		2.1		1.9		1.6		2.6
Marion		2.1		2.3		1.6		2.3		2.2		2.1		2.1		2.5		2.3		2.3
St. Joseph		2.7		1.6		1.2		2.2		2.6		5.5		3.8		1.6		2.6		3.3
Vanderburgh		1.4		1.1		2.1		0.4		1.3		1.1		1.6		2.0		1.4		3.0

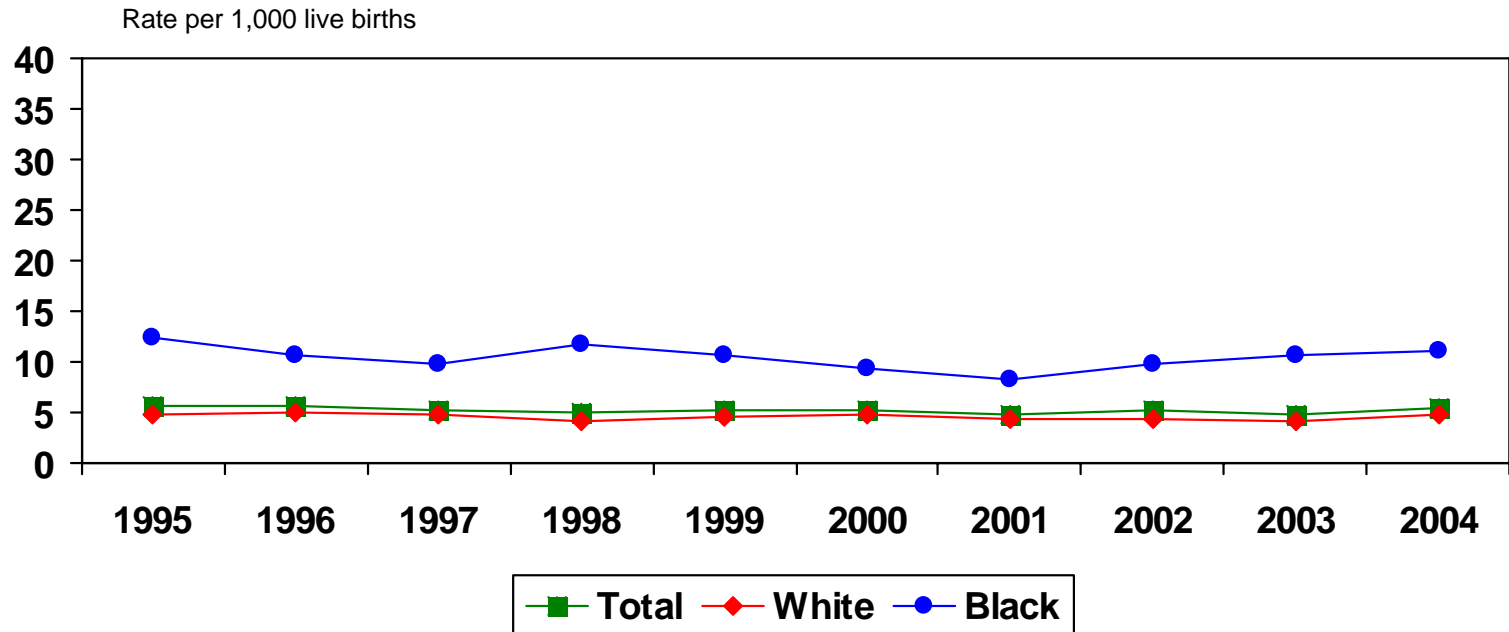
Rate per 1,000 live births.

Shaded area: Numerator is less than 20, and the rate is unstable. The ratio is unstable if the numerator or denominator is less than 20.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Neonatal Mortality Rates by Race

## Indiana Residents, 1995-2004



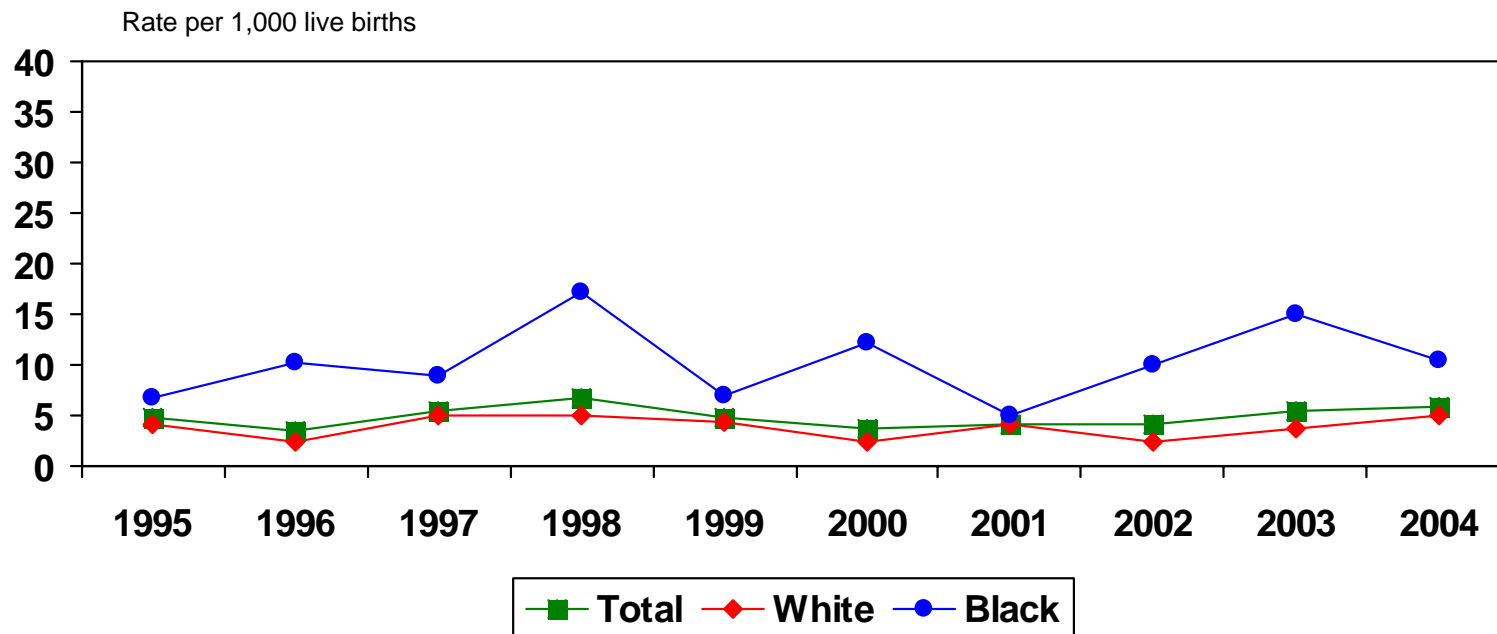
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	5.6	5.6	5.2	5.1	5.2	5.2	4.8	5.2	4.8	5.4
White	4.8	5.0	4.7	4.2	4.5	4.7	4.4	4.4	4.1	4.7
Black	12.5	10.7	9.7	11.8	10.7	9.3	8.3	9.8	10.6	11.0

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Neonatal Mortality Rates by Race

## Allen County Residents, 1995-2004



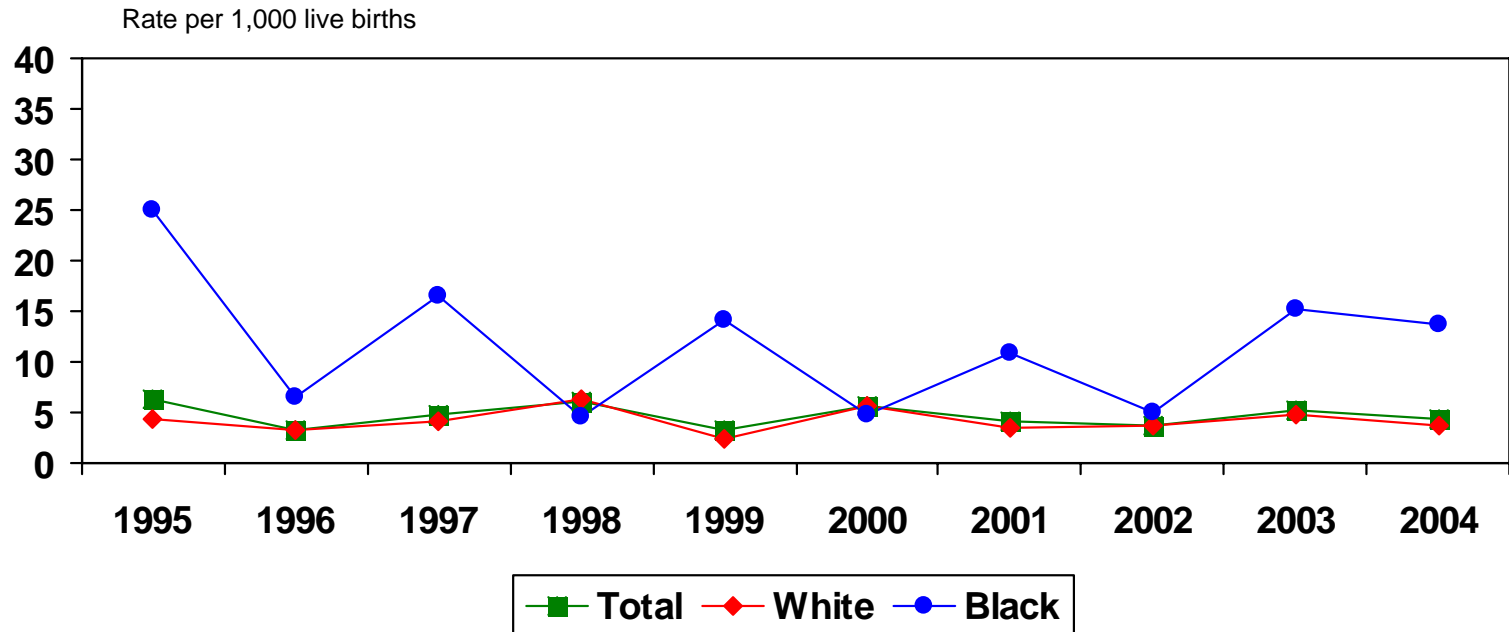
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	4.7	3.5*	5.4	6.7	4.7	3.8	4.1	4.1	5.4	5.8
White	4.2*	2.5*	4.9	5.0	4.3*	2.3*	4.1*	2.3*	3.7*	5.0
Black	6.8*	10.2*	9.0*	17.2*	6.9*	12.1*	4.9*	9.9*	15.0*	10.4*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Neonatal Mortality Rates by Race

## Elkhart County Residents, 1995-2004



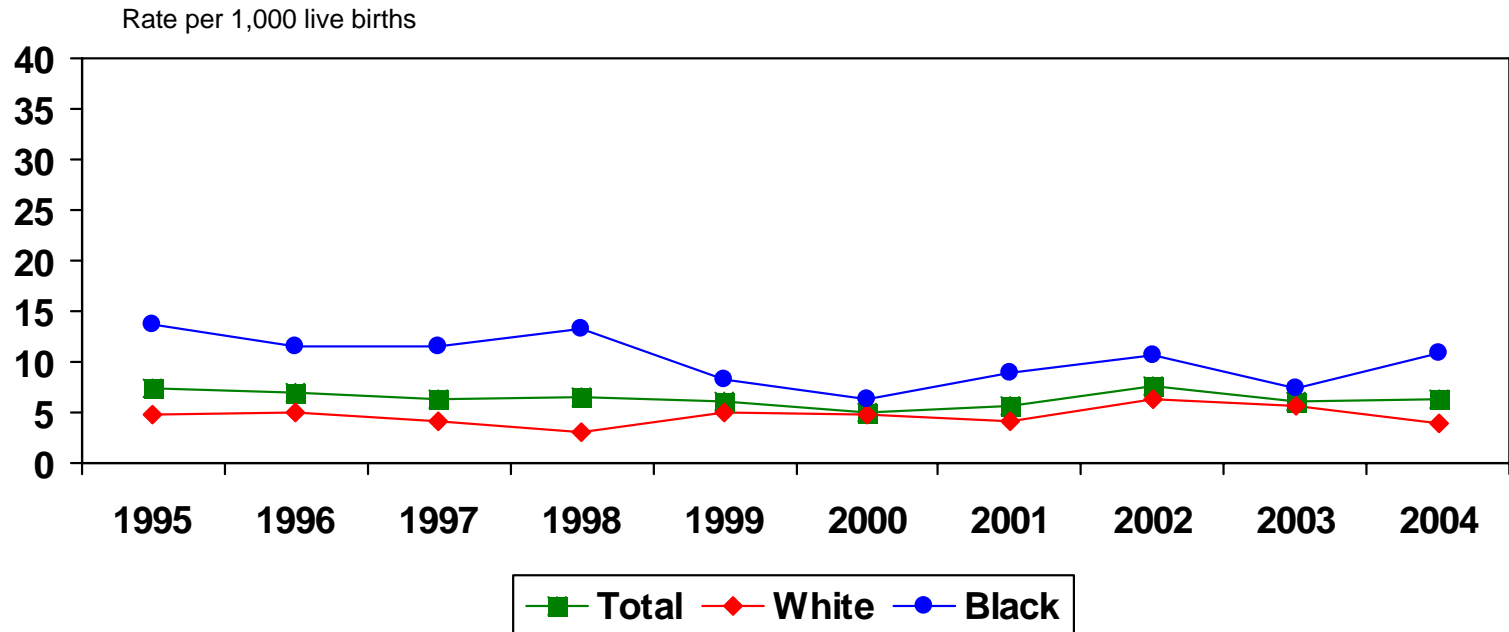
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	6.2*	3.3*	4.8*	6.0*	3.2*	5.7*	4.2*	3.7*	5.3*	4.3*
White	4.3*	3.2*	4.1*	6.2*	2.4*	5.6*	3.5*	3.6*	4.7*	3.7*
Black	25.0*	6.5*	16.5*	4.6*	14.2*	4.7*	10.8*	5.0*	15.2*	13.8*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Neonatal Mortality Rates by Race

## Lake County Residents, 1995-2004



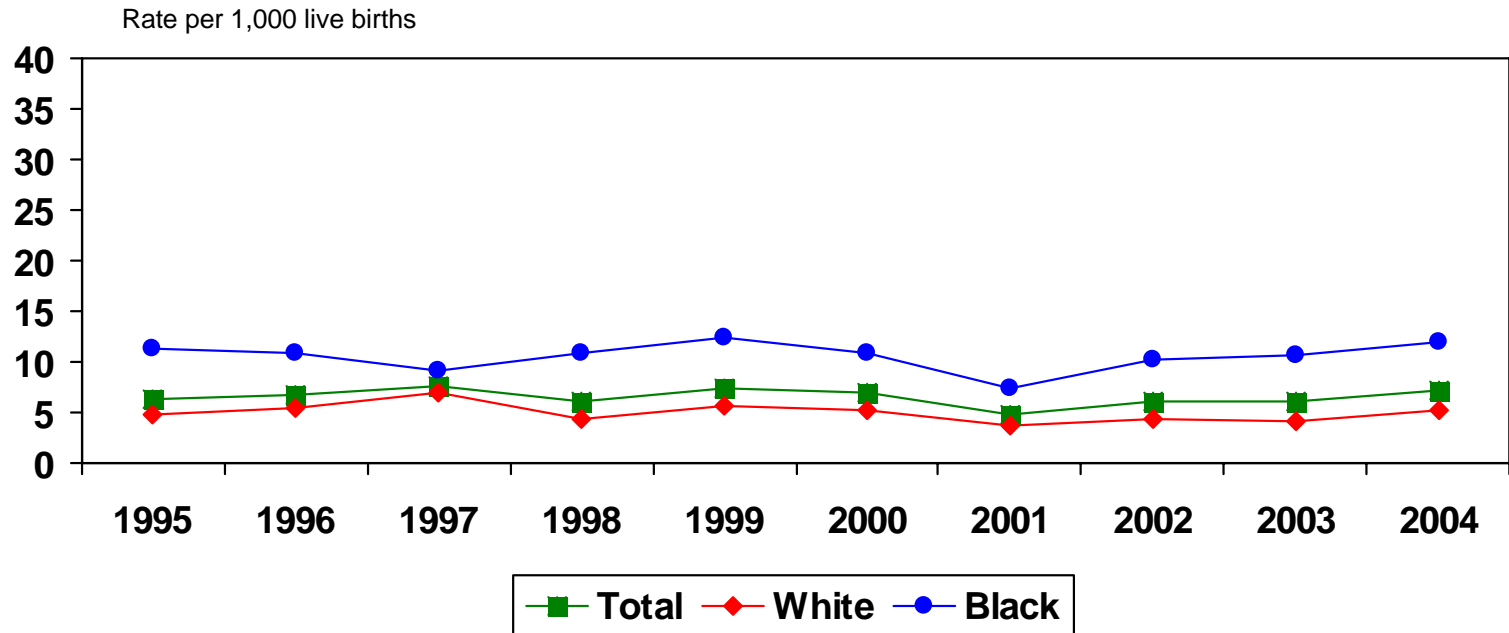
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.5	7.0	6.4	6.6	6.1	5.1	5.6	7.6	6.1	6.2
White	4.7	5.0	4.1*	3.0*	5.1	4.7	4.1*	6.4	5.6	3.9*
Black	13.8	11.6	11.5	13.3	8.3*	6.2*	9.0	10.6	7.3*	10.9

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Neonatal Mortality Rates by Race

## Marion County Residents, 1995-2004

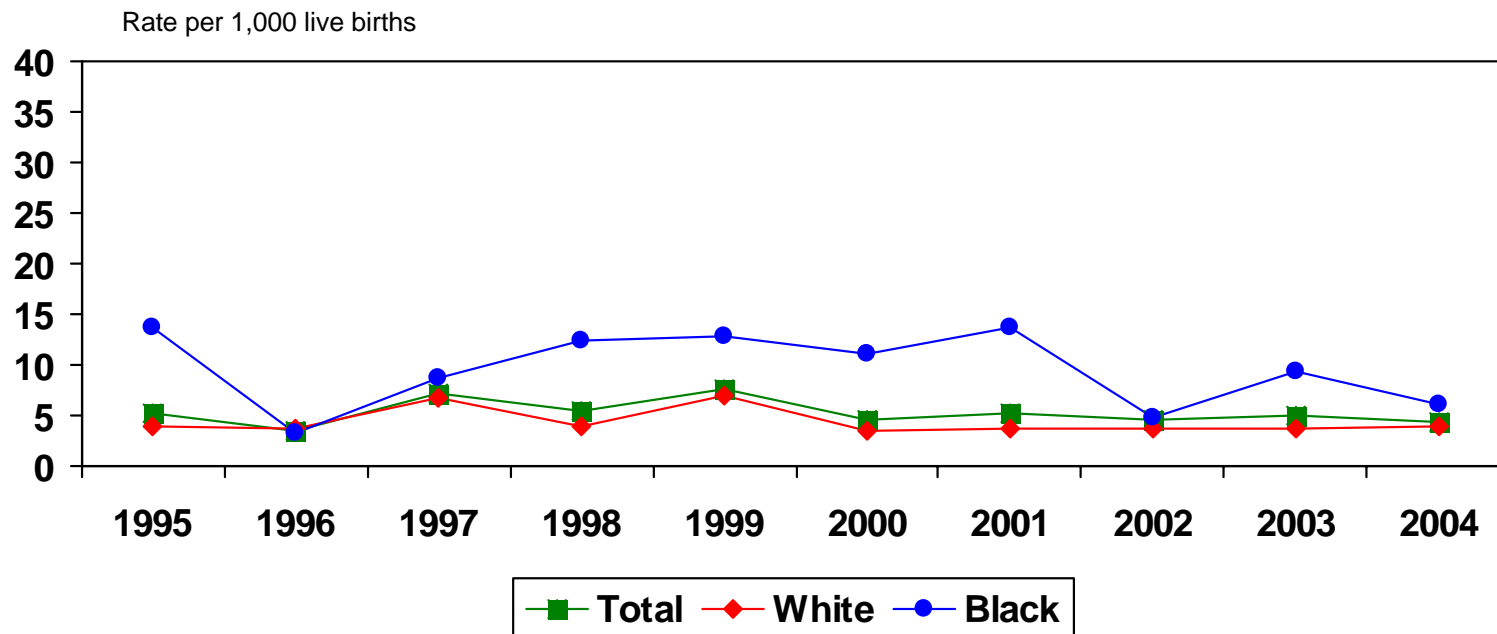


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	6.4	6.7	7.6	6.0	7.5	6.9	4.7	6.0	6.1	7.1
White	4.8	5.4	7.0	4.4	5.6	5.3	3.6	4.4	4.2	5.3
Black	11.4	10.9	9.1	10.9	12.3	10.9	7.4	10.3	10.7	11.9

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Neonatal Mortality Rates by Race

## St. Joseph County Residents, 1995-2004



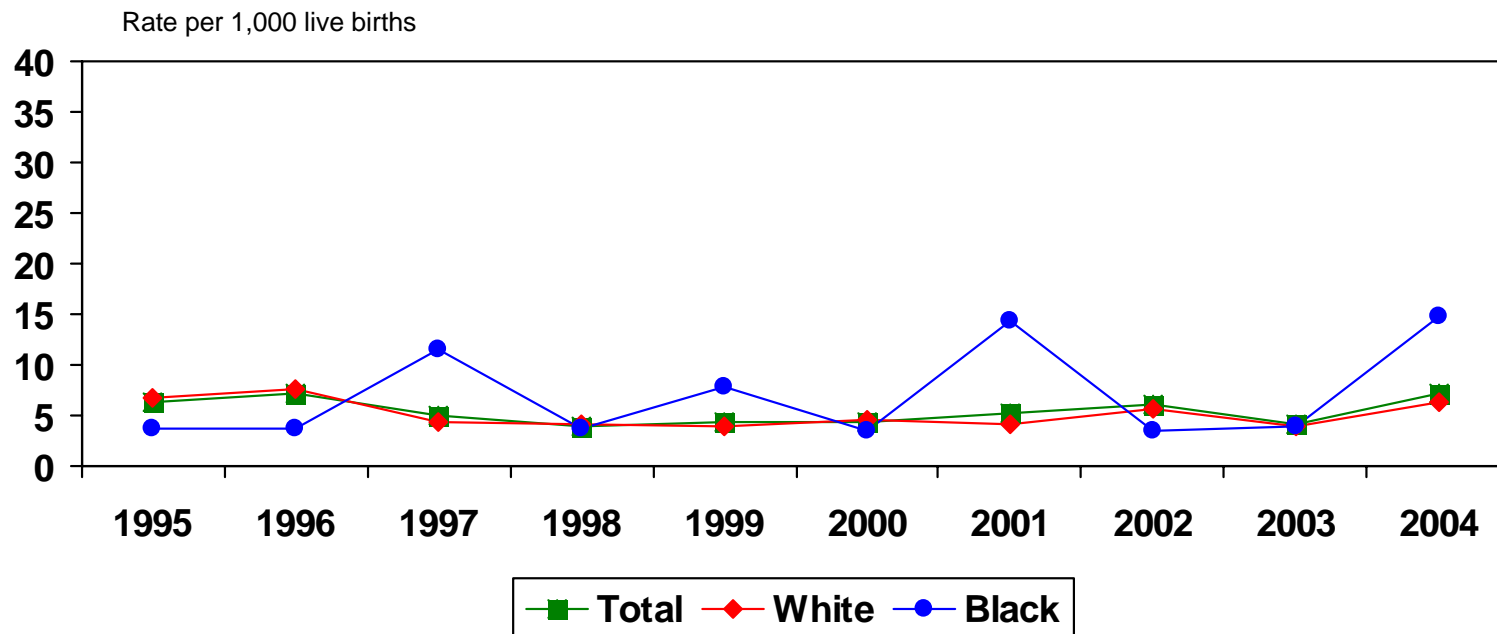
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	5.3	3.4*	7.2	5.5	7.7	4.5*	5.2	4.5*	5.1*	4.4*
White	3.9*	3.6*	6.7	4.0*	6.9	3.4*	3.6*	3.7*	3.7*	3.9*
Black	13.8*	3.3*	8.8*	12.4*	12.9*	11.1*	13.6*	4.7*	9.4*	6.1*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Neonatal Mortality Rates by Race

## Vanderburgh County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	6.4*	7.1*	5.1*	4.0*	4.4*	4.3*	5.2*	6.1*	4.2*	7.2*
White	6.8*	7.7*	4.3*	4.1*	4.0*	4.5*	4.1*	5.6*	3.9*	6.4*
Black	3.8*	3.8*	11.5*	3.6*	7.8*	3.5*	14.3*	3.4*	4.0*	14.8*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

**Neonatal Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates  
Indiana Residents, 1995-2004**

	1995		1996		1997		1998		1999		2000		2001		2002		2003		2004	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
INDIANA	465	5.6	466	5.6	434	5.2	434	5.1	441	5.2	454	5.2	414	4.8	441	5.2	417	4.8	472	5.4
White	350	4.8	367	5.0	342	4.7	316	4.2	335	4.5	358	4.7	330	4.4	329	4.4	309	4.1	354	4.7
Black	109	12.5	94	10.7	85	9.7	109	11.8	99	10.7	88	9.3	79	8.3	91	9.8	98	10.6	105	11.0
Ratio		2.6		2.1		2.1		2.8		2.4		2.0		1.9		2.2		2.6		2.3
ALL RACES	218	6.3	198	5.7	228	6.6	214	6.0	224	6.3	204	5.1	174	4.8	202	5.3	205	5.4	228	5.8
Allen	23	4.7	17	3.5	27	5.4	34	6.7	24	4.7	20	3.8	22	4.1	21	4.1	28	5.4	31	5.8
Elkhart	17	6.2	9	3.3	14	4.8	18	6.0	10	3.2	19	5.7	13	4.2	11	3.7	17	5.3	14	4.3
Lake	55	7.5	50	7.0	44	6.4	47	6.6	43	6.1	36	5.1	39	5.6	52	7.6	42	6.1	43	6.2
Marion	89	6.4	93	6.7	105	7.6	84	6.0	107	7.5	101	6.9	68	4.7	87	6.0	89	6.1	106	7.1
St. Joseph	20	5.3	13	3.4	27	7.2	22	5.5	30	7.7	18	4.5	20	5.2	17	4.5	19	5.1	17	4.4
Vanderburgh	14	6.4	16	7.1	11	5.1	9	4.0	10	4.4	10	4.3	12	5.2	14	6.1	10	4.2	17	7.2
WHITE	125	4.7	122	4.6	149	5.6	116	4.4	135	5.0	123	4.3	102	3.8	116	4.3	118	4.3	131	4.7
Allen	17	4.2	10	2.5	20	4.9	21	5.0	18	4.3	10	2.3	18	4.1	10	2.3	16	3.7	22	5.0
Elkhart	11	4.3	8	3.2	11	4.1	17	6.2	7	2.4	17	5.6	10	3.5	10	3.6	14	4.7	11	3.7
Lake	23	4.7	24	5.0	19	4.1	14	3.0	24	5.1	22	4.7	19	4.1	29	6.4	26	5.6	18	3.9
Marion	49	4.8	54	5.4	70	7.0	43	4.4	56	5.6	54	5.3	36	3.6	45	4.4	43	4.2	55	5.3
St. Joseph	12	3.9	11	3.6	21	6.7	13	4.0	22	6.9	11	3.4	11	3.6	11	3.7	11	3.7	12	3.9
Vanderburgh	13	6.8	15	7.7	8	4.3	8	4.1	8	4.0	9	4.5	8	4.1	11	5.6	8	3.9	13	6.4
BLACK	90	11.9	76	10.1	76	10.0	95	11.9	85	10.6	76	8.1	69	10.0	76	7.3	80	10.3	92	11.3
Allen	5	6.8	7	10.2	7	9.0	13	17.2	5	6.9	9	12.1	4	4.9	7	9.9	11	15.0	8	10.4
Elkhart	4	25.0	1	6.5	3	16.5	1	4.6	3	14.2	1	4.7	2	10.8	1	5.0	3	15.2	3	13.8
Lake	32	13.8	26	11.6	25	11.5	31	13.3	19	8.3	14	6.2	20	9.0	23	10.6	16	7.3	24	10.9
Marion	40	11.4	39	10.9	33	9.1	41	10.9	48	12.3	44	10.9	30	7.4	41	10.3	43	10.7	49	11.9
St. Joseph	8	13.8	2	3.3	5	8.8	8	12.4	8	12.9	7	11.1	9	13.6	3	4.7	6	9.4	4	6.1
Vanderburgh	1	3.8	1	3.8	3	11.5	1	3.6	2	7.8	1	3.5	4	14.3	1	3.4	1	4.0	4	14.8
RATIO																				
Allen		1.6		4.1		1.8		3.4		1.6		5.2		1.2		4.3		4.1		2.1
Elkhart		5.8		2.0		4.0		0.7		5.9		0.8		3.1		1.4		3.2		3.7
Lake		2.9		2.3		2.8		4.4		1.6		1.3		2.2		1.7		1.3		2.8
Marion		2.3		2.0		1.3		2.5		2.2		2.1		2.1		2.3		2.5		2.2
St. Joseph		3.6		0.9		1.3		3.1		1.9		3.3		3.8		1.3		2.5		1.6
Vanderburgh		0.6		0.5		2.7		0.9		2.0		0.8		3.5		0.6		1.0		2.3

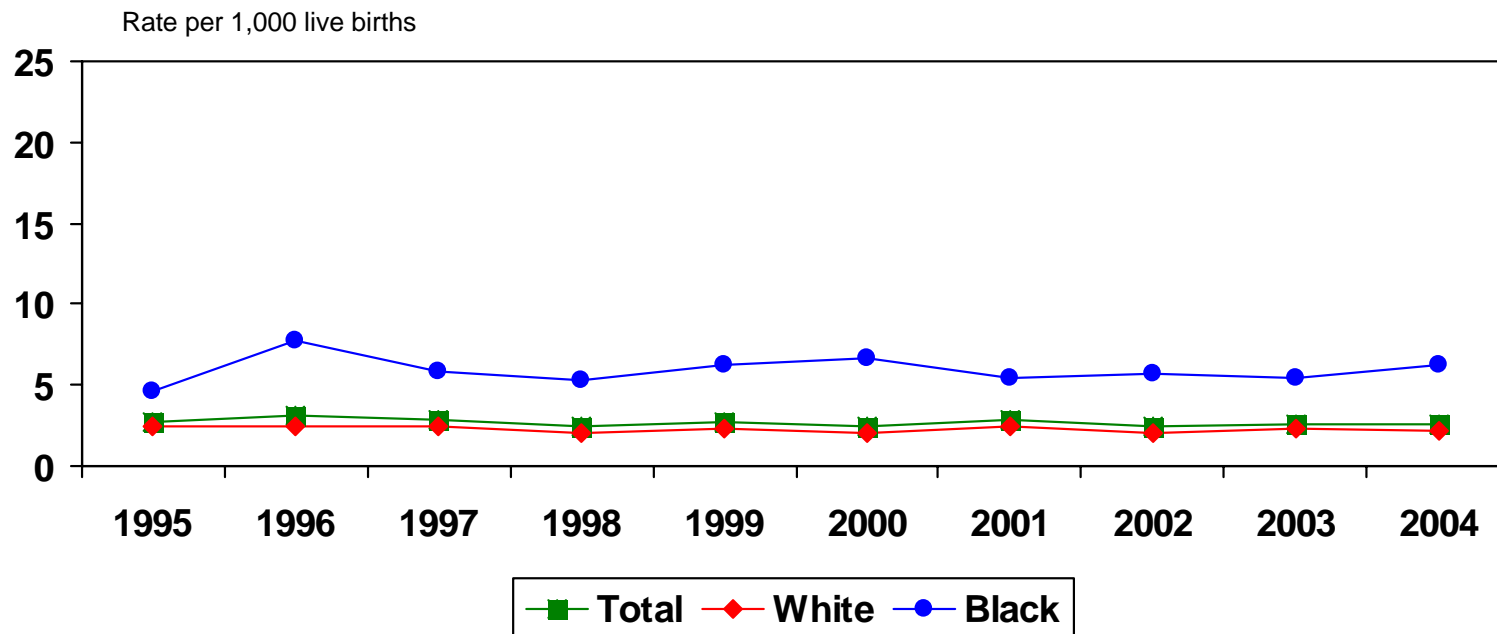
Rate per 1,000 live births.

Shaded area: Numerator is less than 20, and the rate is unstable. The ratio is unstable if the numerator or denominator is less than 20.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Postneonatal Mortality Rates by Race

## Indiana Residents, 1995-2004



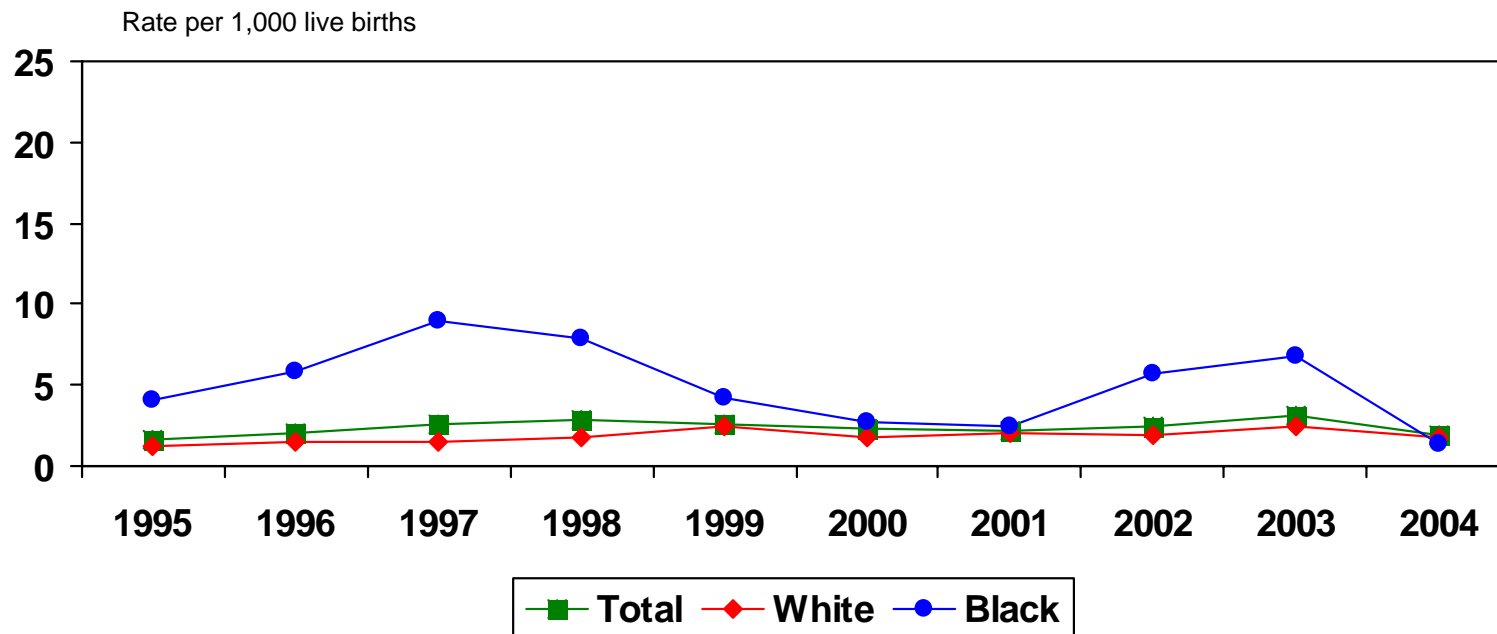
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	2.7	3.1	2.9	2.4	2.7	2.5	2.8	2.5	2.6	2.6
White	2.4	2.5	2.5	2.0	2.3	2.0	2.5	2.0	2.3	2.2
Black	4.6	7.7	5.8	5.3	6.3	6.6	5.4	5.7	5.4	6.2

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Postneonatal Mortality Rates by Race

## Allen County Residents, 1995-2004



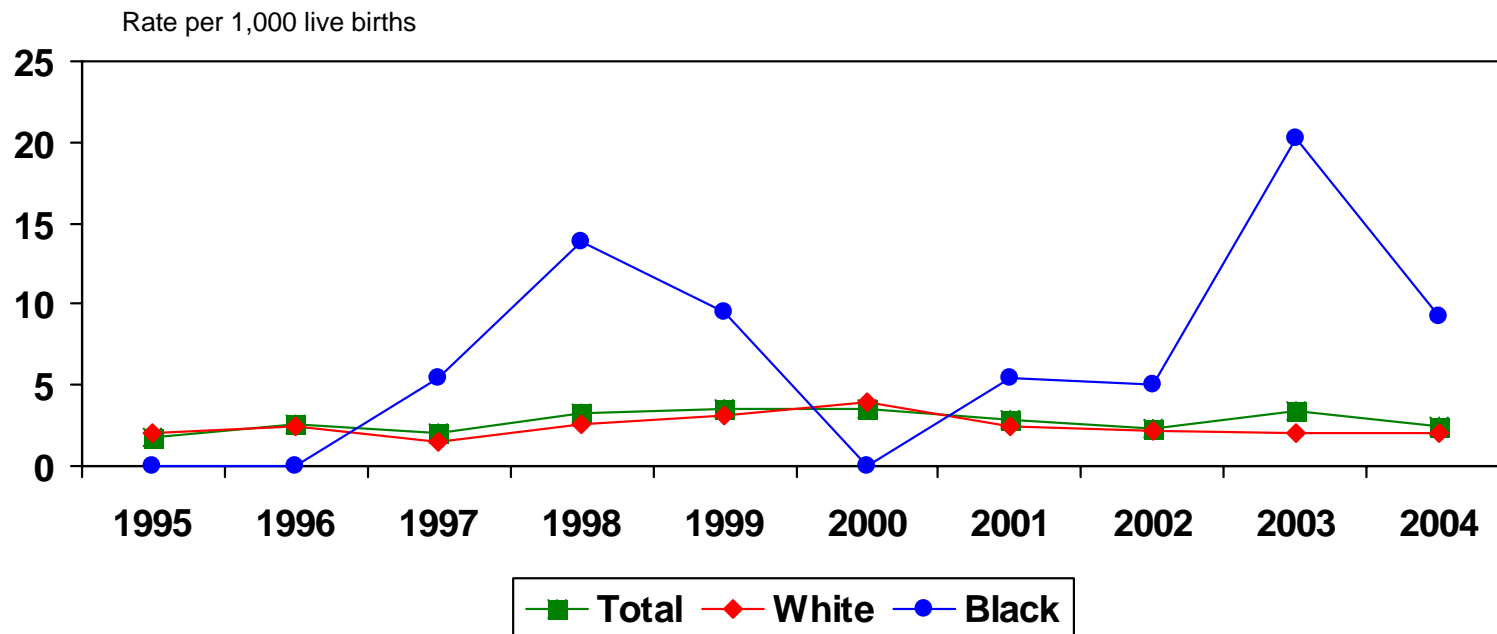
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.6*	2.1*	2.6*	2.8*	2.6*	2.3*	2.2*	2.5*	3.1*	1.9*
White	1.2*	1.5*	1.5*	1.7*	2.4*	1.8*	2.0*	1.8*	2.5*	1.8*
Black	4.1*	5.8*	9.0*	7.9*	4.2*	2.7*	2.5*	5.7*	6.8*	1.3*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Postneonatal Mortality Rates by Race

## Elkhart County Residents, 1995-2004



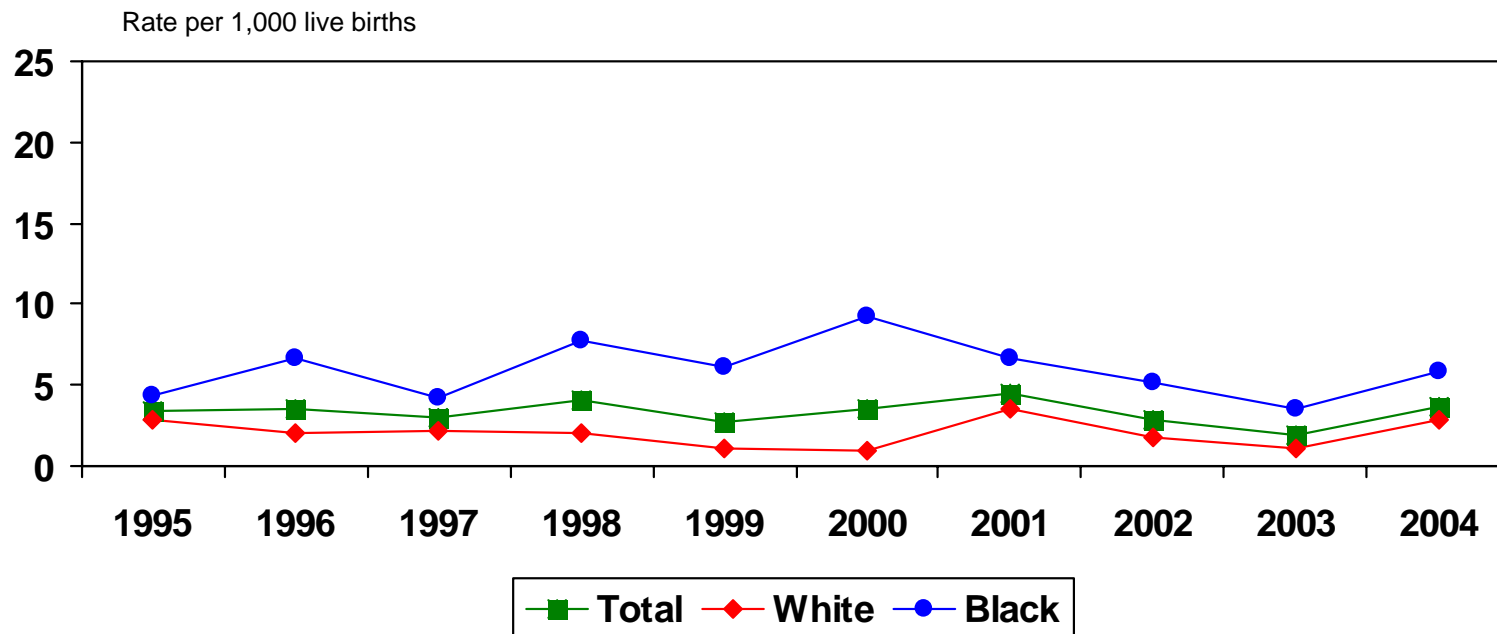
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.8*	2.6*	2.1*	3.3*	3.5*	3.6*	2.9*	2.3*	3.4*	2.5*
White	2.0*	2.4*	1.5*	2.6*	3.1*	3.9*	2.4*	2.2*	2.0*	2.0*
Black	0.0*	0.0*	5.5*	13.9*	9.5*	0.0*	5.4*	5.0*	20.2*	9.2*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Postneonatal Mortality Rates by Race

## Lake County Residents, 1995-2004



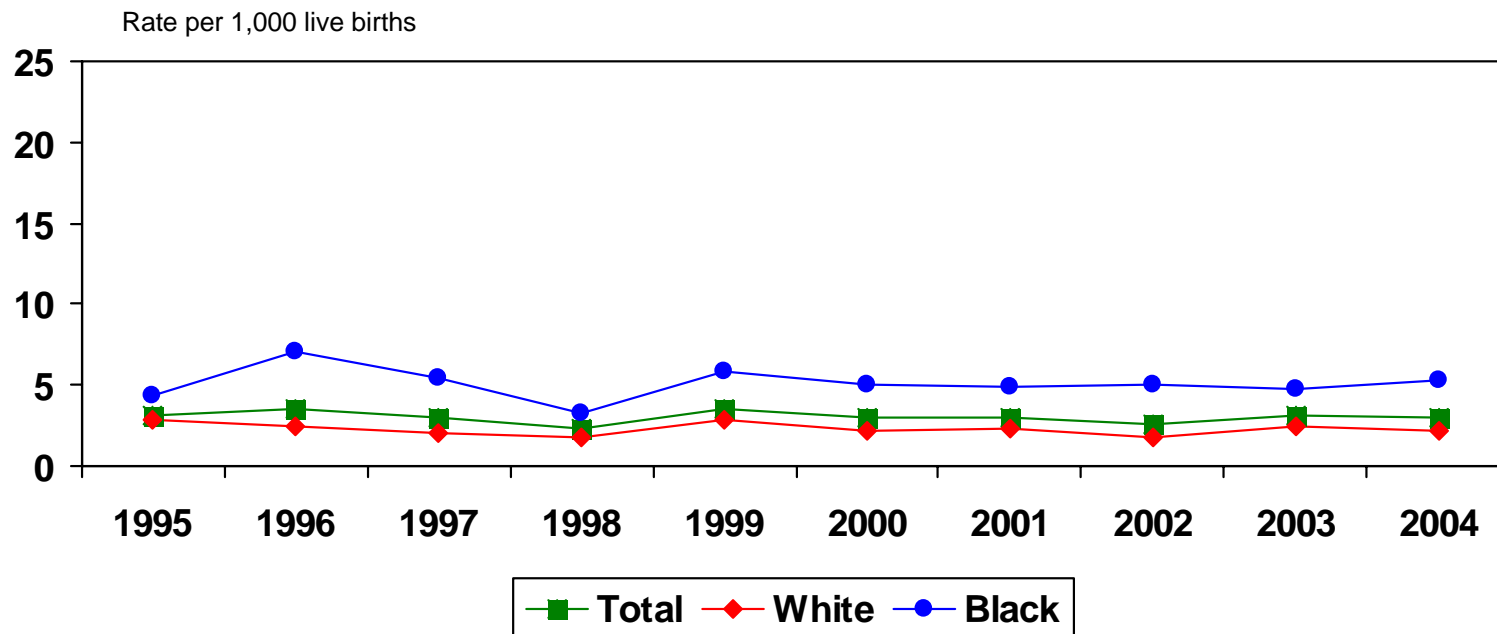
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	3.4	3.5	3.0	4.1	2.7*	3.6	4.5	2.9	1.9*	3.7
White	2.8*	2.1*	2.2*	2.1*	1.1*	0.9*	3.5*	1.8*	1.1*	2.8*
Black	4.3*	6.7*	4.2*	7.7*	6.1*	9.3	6.7*	5.1*	3.6*	5.9*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Postneonatal Mortality Rates by Race

## Marion County Residents, 1995-2004



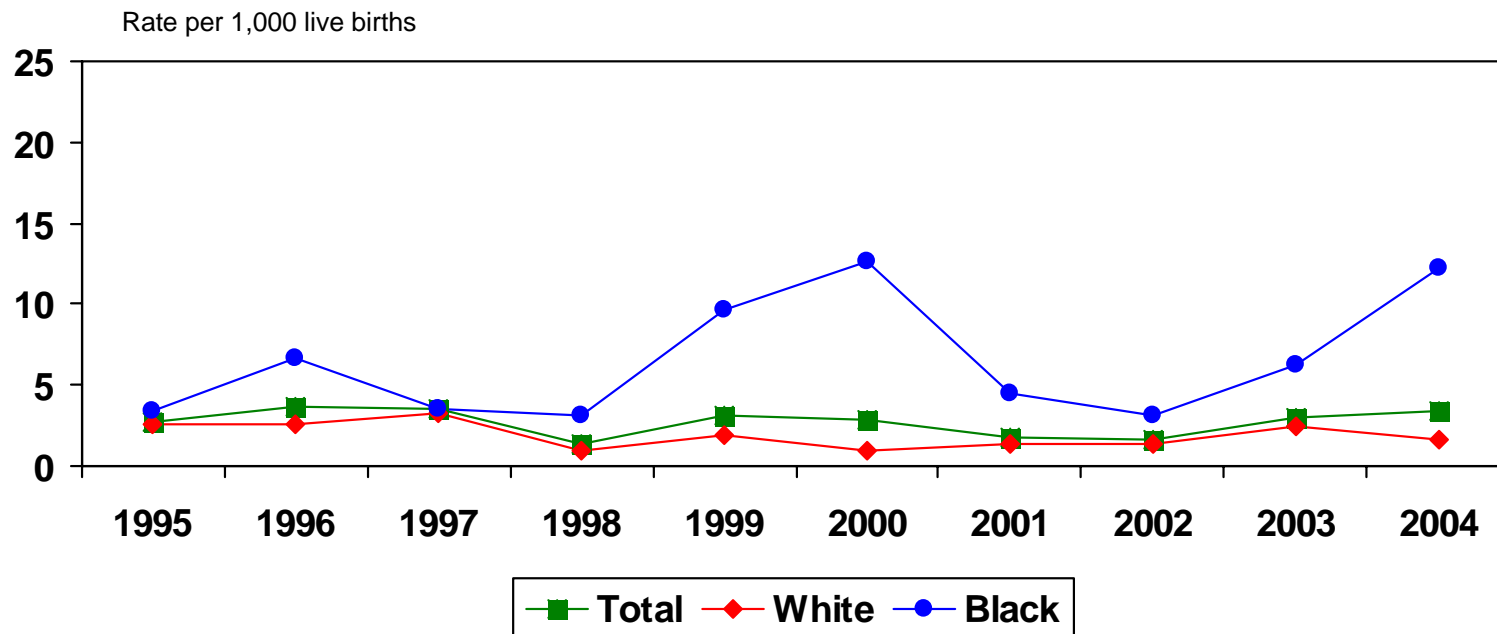
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	3.1	3.6	3.0	2.3	3.6	3.0	3.0	2.6	3.1	3.0
White	2.8	2.4	2.1	1.8*	2.8	2.2	2.3	1.8*	2.5	2.2
Black	4.3*	7.0	5.5	3.2*	5.9	5.0	4.9	5.0	4.7*	5.3

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Postneonatal Mortality Rates by Race

## St. Joseph County Residents, 1995-2004

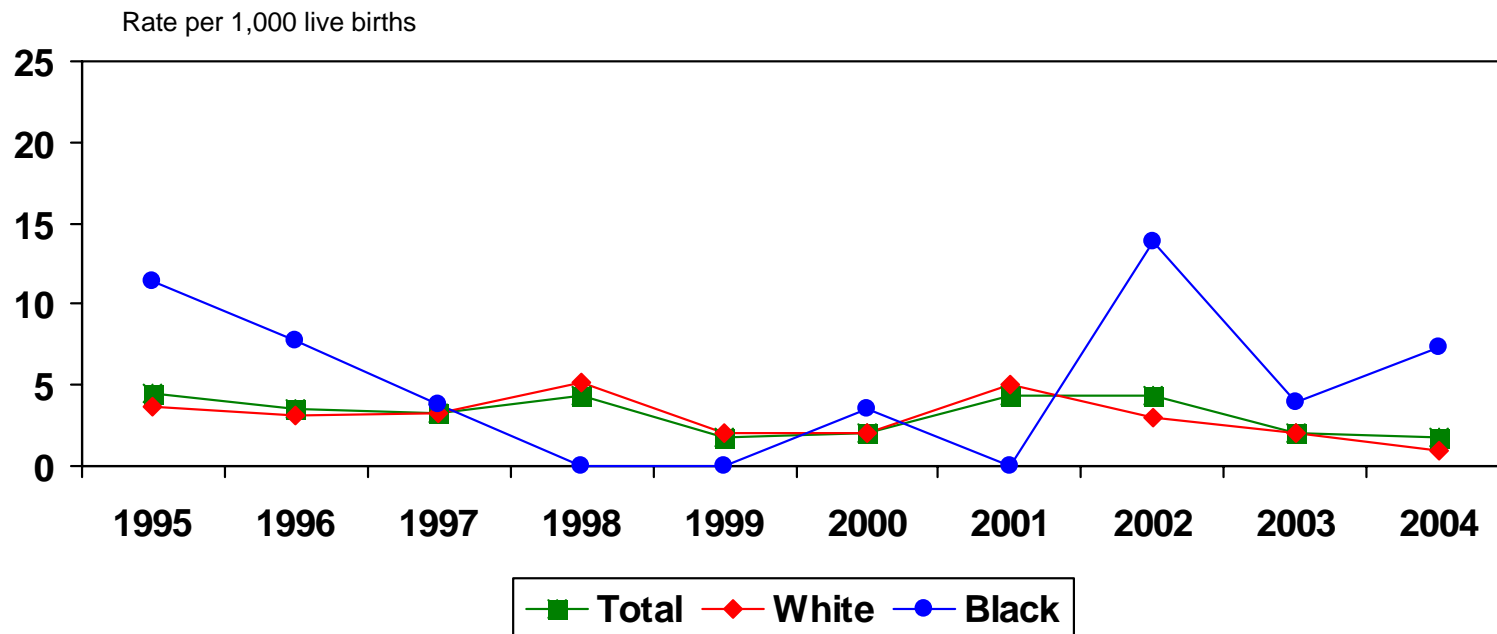


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	2.7*	3.7*	3.5*	1.3*	3.1*	2.8*	1.8*	1.6*	3.0*	3.4*
White	2.6*	2.6*	3.2*	0.9*	1.9*	0.9*	1.3*	1.3*	2.4*	1.6*
Black	3.4*	6.6*	3.5*	3.1*	9.7*	12.7*	4.5*	3.1*	6.3*	12.2*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Postneonatal Mortality Rates by Race Vanderburgh County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	4.5*	3.6*	3.2*	4.4*	1.8*	2.1*	4.4*	4.4*	2.1*	1.7*
White	3.7*	3.1*	3.2*	5.1*	2.0*	2.0*	5.1*	3.0*	2.0*	1.0*
Black	11.4*	7.7*	3.8*	0.0*	0.0*	3.5*	0.0*	13.7*	4.0*	7.4*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

**Postneonatal Mortality by Race for Six Urban Counties and Ratio of Black to White Mortality Rates  
Indiana Residents, 1995-2004**

	1995		1996		1997		1998		1999		2000		2001		2002		2003		2004	
	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate	Number	Rate
INDIANA	220	2.7	258	3.1	241	2.9	207	2.4	230	2.7	222	2.5	238	2.8	208	2.5	224	2.6	230	2.6
White	176	2.4	183	2.5	184	2.5	152	2.0	171	2.3	153	2.0	184	2.5	150	2.0	170	2.3	168	2.2
Black	40	4.6	67	7.7	51	5.8	49	5.3	58	6.3	62	6.6	51	5.4	53	5.7	50	5.4	59	6.2
Ratio		1.9		3.1		2.3		2.7		2.7		3.3		2.2		2.9		2.3		2.8
ALL RACES	101	2.9	114	3.3	102	2.9	100	2.8	110	3.1	109	2.9	112	3.1	94	2.7	102	2.8	106	2.7
Allen	8	1.6	10	2.1	13	2.6	14	2.8	13	2.6	12	2.3	12	2.2	13	2.5	16	3.1	10	1.9
Elkhart	5	1.8	7	2.6	6	2.1	10	3.3	11	3.5	12	3.6	9	2.9	7	2.3	11	3.4	8	2.5
Lake	25	3.4	25	3.5	21	3.0	29	4.1	19	2.7	25	3.6	31	4.5	20	2.9	13	1.9	26	3.7
Marion	43	3.1	50	3.6	42	3.0	32	2.3	51	3.6	44	3.0	43	3.0	38	2.6	46	3.1	45	3.0
St. Joseph	10	2.7	14	3.7	13	3.5	5	1.3	12	3.1	11	2.8	7	1.8	6	1.6	11	3.0	13	3.4
Vanderburgh	10	4.5	8	3.6	7	3.2	10	4.4	4	1.8	5	2.1	10	4.4	10	4.4	5	2.1	4	1.7
WHITE	67	2.5	60	2.3	57	2.2	55	2.1	62	2.3	53	2.0	69	2.8	50	2.0	59	2.1	57	1.9
Allen	5	1.2	6	1.5	6	1.5	7	1.7	10	2.4	8	1.8	9	2.0	8	1.8	11	2.5	8	1.8
Elkhart	5	2.0	6	2.4	4	1.5	7	2.6	9	3.1	12	3.9	7	2.4	6	2.2	6	2.0	6	2.0
Lake	14	2.8	10	2.1	10	2.2	10	2.1	5	1.1	4	0.9	16	3.5	8	1.8	5	1.1	13	2.8
Marion	28	2.8	24	2.4	21	2.1	18	1.8	28	2.8	22	2.2	23	2.3	18	1.8	26	2.5	23	2.2
St. Joseph	8	2.6	8	2.6	10	3.2	3	0.9	6	1.9	3	0.9	4	1.3	4	1.3	7	2.4	5	1.6
Vanderburgh	7	3.7	6	3.1	6	3.2	10	5.1	4	2.0	4	2.0	10	5.1	6	3.0	4	2.0	2	1.0
BLACK	33	4.4	50	6.6	40	5.3	41	5.1	48	6.0	52	5.5	41	4.0	42	6.3	41	7.6	48	6.9
Allen	3	4.1	4	5.8	7	9.0	6	7.9	3	4.2	2	2.7	2	2.5	4	5.7	5	6.8	1	1.3
Elkhart	0	0.0	0	0.0	1	5.5	3	13.9	2	9.5	0	0.0	1	5.4	1	5.0	4	20.2	2	9.2
Lake	10	4.3	15	6.7	9	4.2	18	7.7	14	6.1	21	9.3	15	6.7	11	5.1	8	3.6	13	5.9
Marion	15	4.3	25	7.0	20	5.5	12	3.2	23	5.9	20	5.0	20	4.9	20	5.0	19	4.7	22	5.3
St. Joseph	2	3.4	4	6.6	2	3.5	2	3.1	6	9.7	8	12.7	3	4.5	2	3.1	4	6.3	8	12.2
Vanderburgh	3	11.4	2	7.7	1	3.8	0	0.0	0	0.0	1	3.5	0	0.0	4	13.7	1	4.0	2	7.4
RATIO																				
Allen		3.3		3.9		6.0		4.6		1.8		1.5		1.3		3.2		2.7		0.7
Elkhart		0.0		0.0		3.7		5.3		3.1		0.0		2.3		2.3		10.1		4.6
Lake		1.5		3.2		1.9		3.7		5.5		10.9		1.9		2.8		3.3		2.1
Marion		1.5		2.9		2.6		1.8		2.1		2.3		2.1		2.8		1.9		2.4
St. Joseph		1.3		2.5		1.1		3.4		5.1		13.7		3.5		2.4		2.6		7.6
Vanderburgh		3.1		2.5		1.2		0.0		0.0		1.8		0.0		4.6		2.0		7.4

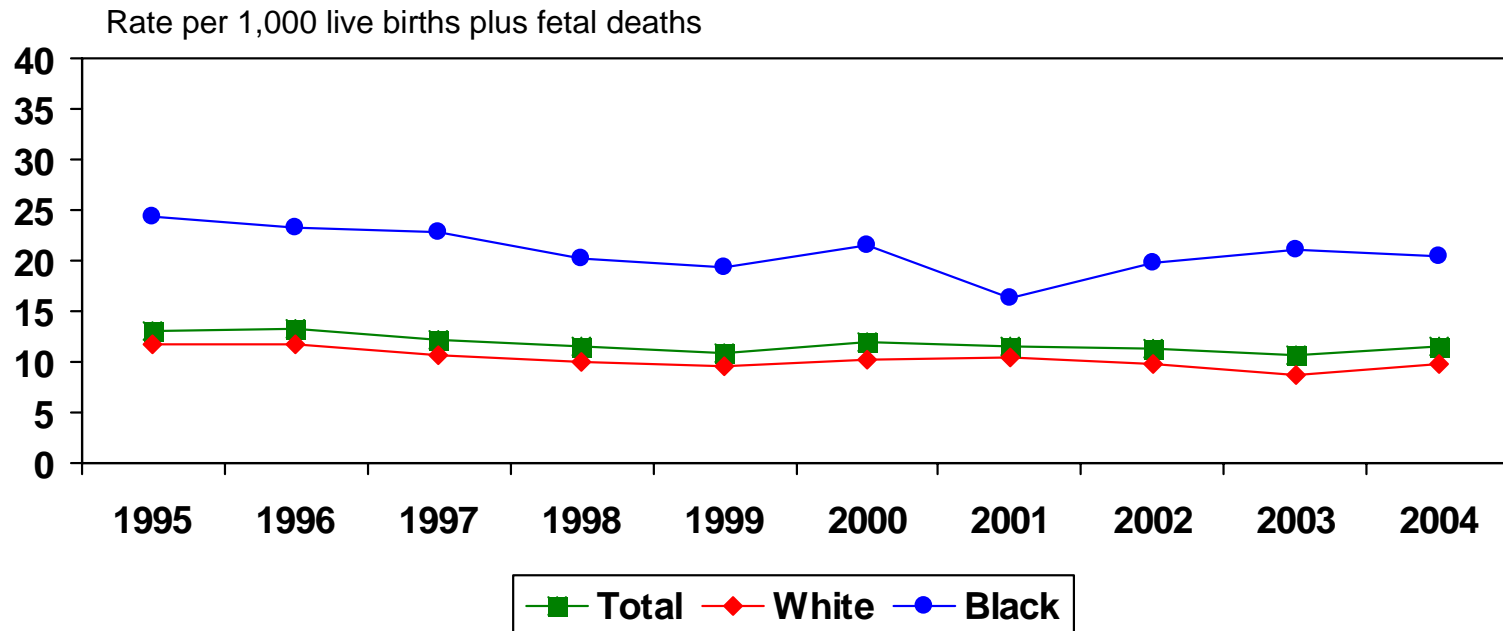
Rate per 1,000 live births.

Shaded area: Numerator is less than 20, and the rate is unstable. The ratio is unstable if the numerator or denominator is less than 20.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Perinatal Mortality Rates by Race

## Indiana Residents, 1995-2004



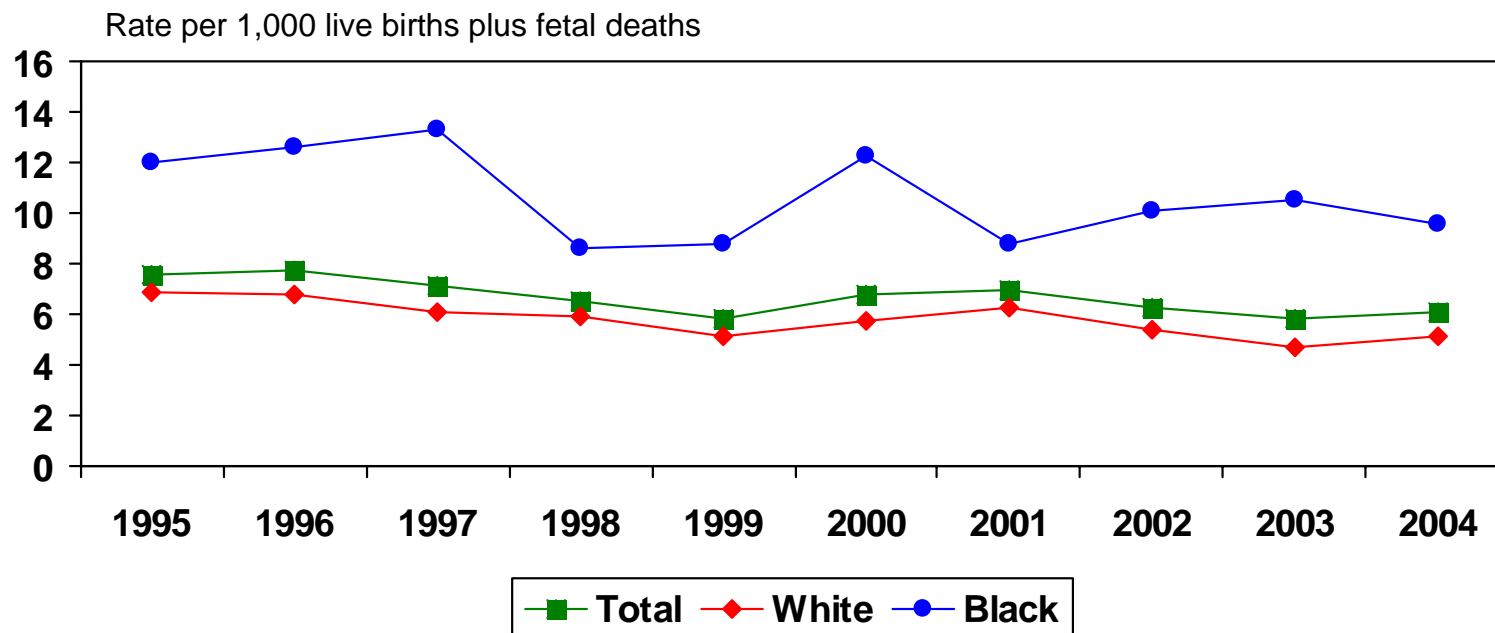
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	13.1	13.2	12.2	11.5	10.9	11.9	11.5	11.4	10.6	11.5
White	11.7	11.8	10.7	10.1	9.6	10.3	10.4	9.8	8.7	9.8
Black	24.3	23.3	22.9	20.3	19.4	21.5	16.3	19.8	21.0	20.5

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Fetal Mortality Rates by Race

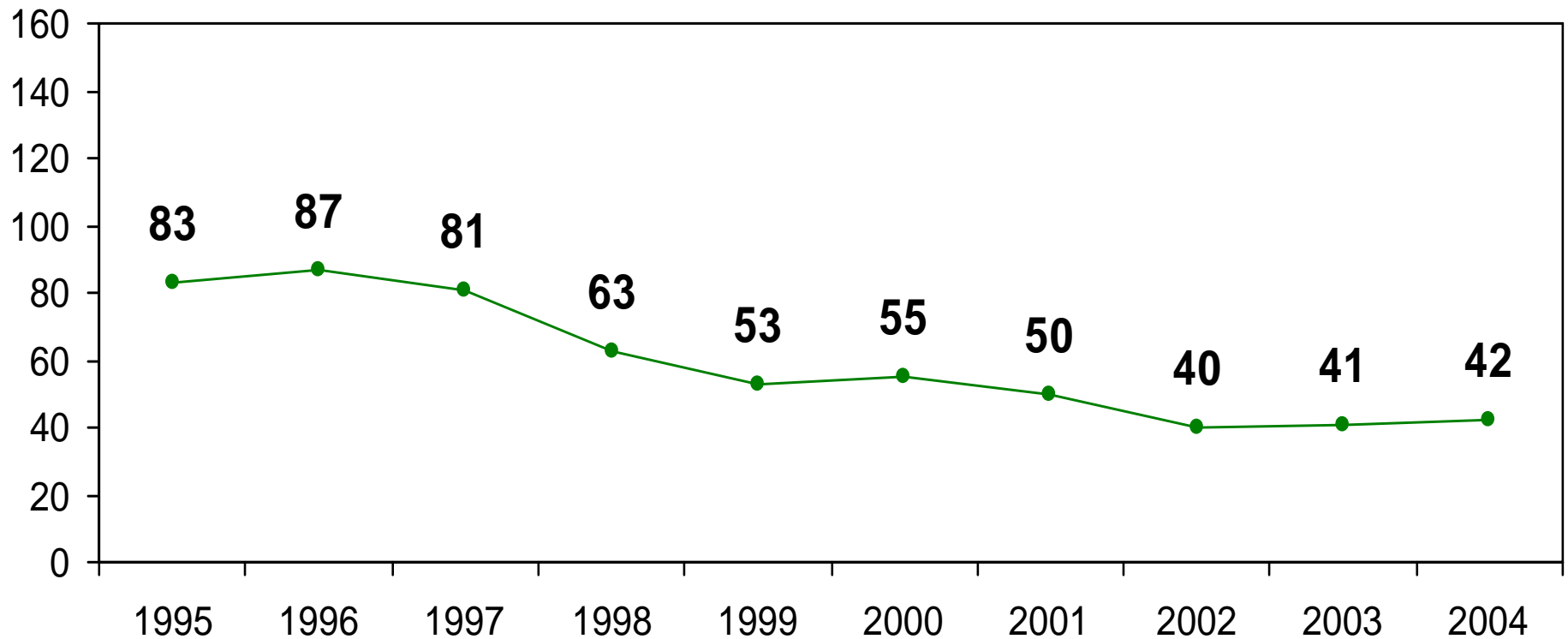
## Indiana Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.6	7.7	7.1	6.5	5.8	6.8	7.0	6.3	5.8	6.1
White	6.9	6.8	6.1	5.9	5.1	5.7	6.3	5.4	4.7	5.1
Black	12.0	12.6	13.3	8.6	8.8	12.3	8.8	10.1	10.5	9.6

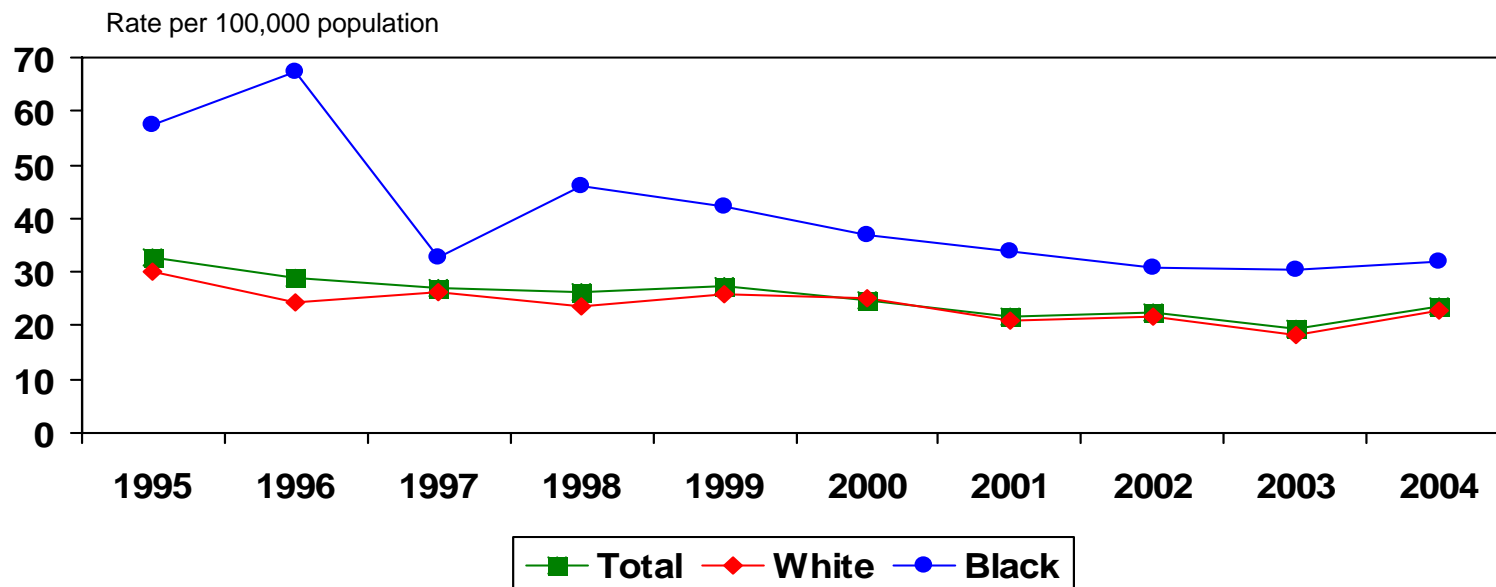
Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Number of SIDS Deaths Indiana Residents, 1995-2004 All Races



Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

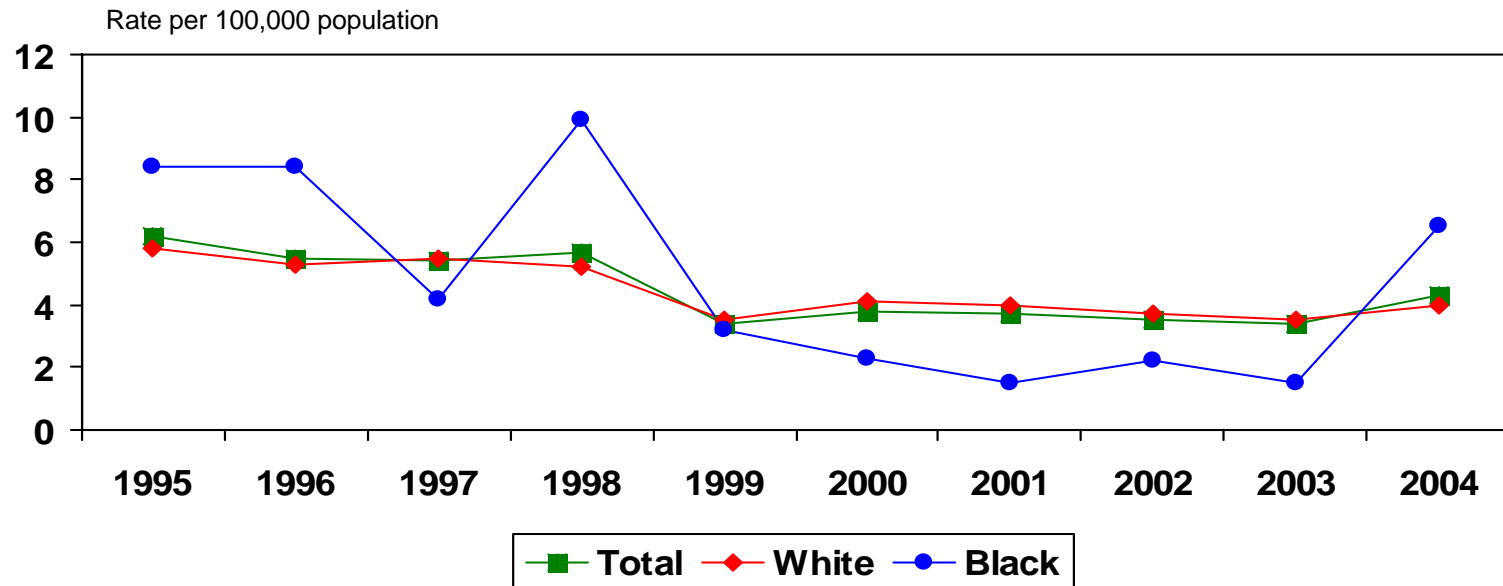
# Mortality Rates for Youths Aged 1-14 Years, by Race Indiana Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	32.7	28.9	27.2	26.2	27.5	24.9	21.8	22.4	19.3	23.5
White	29.9	24.4	26.3	23.4	25.9	25.0	21.1	21.6	18.3	22.7
Black	57.4	67.2	32.6	46.0	42.1	37.0	34.0	30.9	30.3	31.9

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Motor Vehicle Injury Mortality Rates Among Youths Aged 1-14 Years, by Race Indiana Residents, 1995-2004

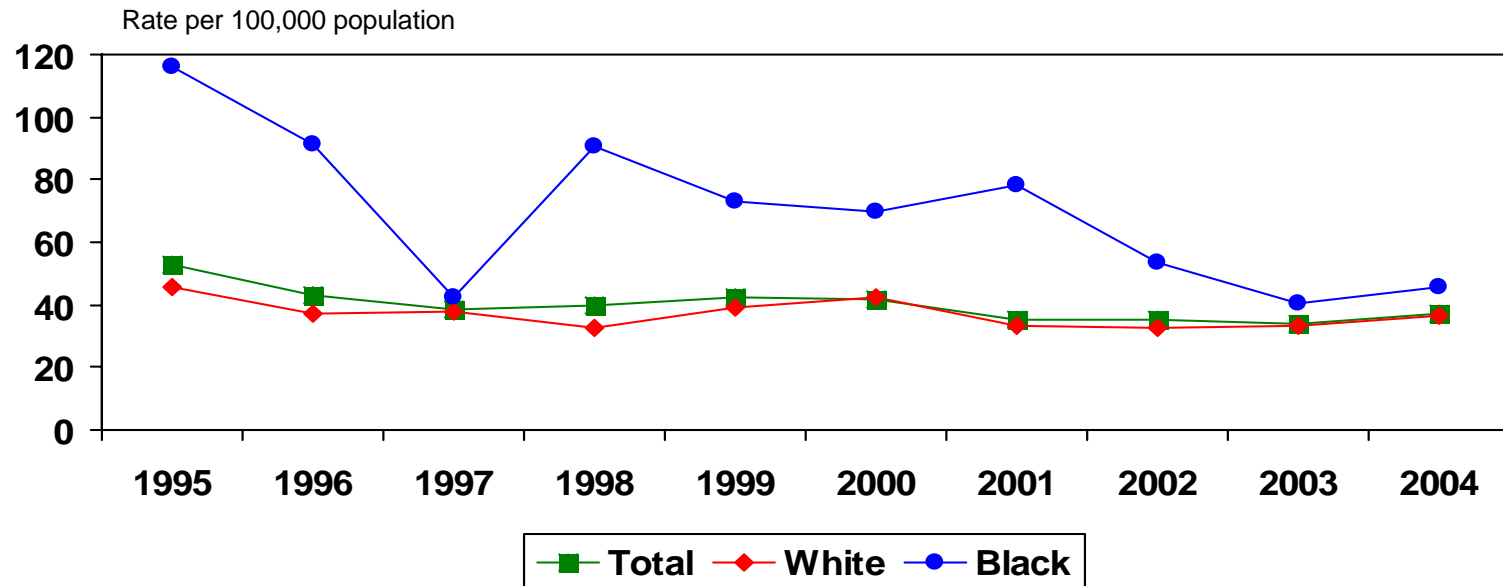


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	6.2	5.5	5.4	5.7	3.4	3.8	3.7	3.5	3.4	4.3
White	5.8	5.3	5.5	5.2	3.5	4.1	4.0	3.7	3.5	4.0
Black	8.4*	8.4*	4.2*	9.9*	3.2*	2.3*	1.5*	2.2*	1.5*	6.5*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Mortality Rates for Youths Aged 1-4 Years, by Race Indiana Residents, 1995-2004

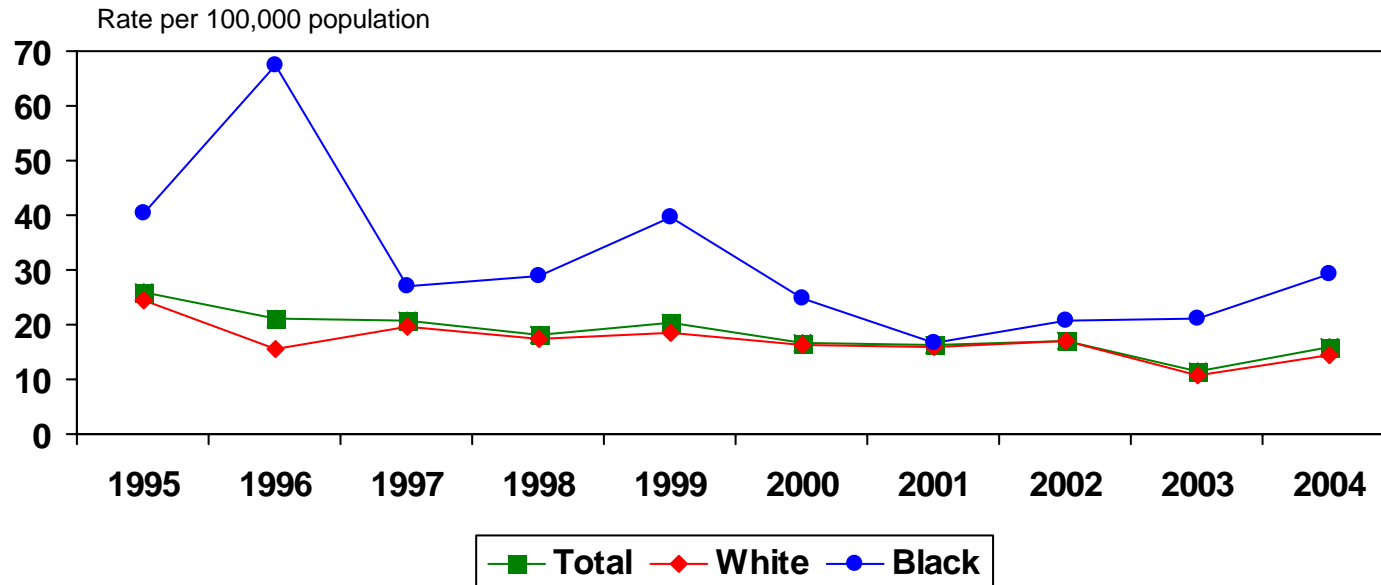


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	52.9	42.9	38.4	39.5	42.6	41.9	35.4	34.9	33.8	36.9
White	45.9	37.2	37.8	32.3	39.3	42.1	33.1	32.8	33.3	36.6
Black	116.2	91.4	42.1*	90.4	73.0	69.7	78.0	53.4	40.4*	45.4*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Mortality Rates for Youths Aged 5-9 Years, by Race Indiana Residents, 1995-2004

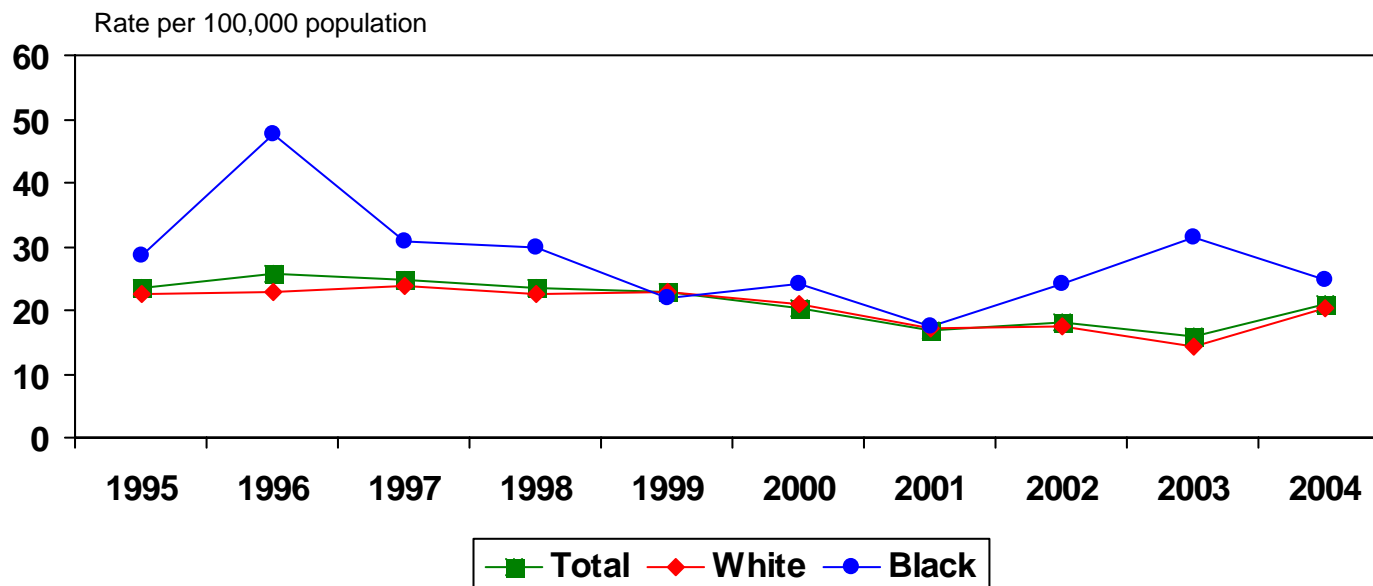


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	26.1	21.1	20.9	18.3	20.5	16.5	16.2	17.1	11.6	15.8
White	24.4	15.6	19.6	17.3	18.5	16.2	16.0	17.1	10.9	14.3
Black	40.5*	67.5	27.2*	28.8*	39.7*	25.0*	16.7*	20.8*	21.1*	29.1*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Mortality Rates for Youths Aged 10-14 Years, by Race Indiana Residents, 1995-2004

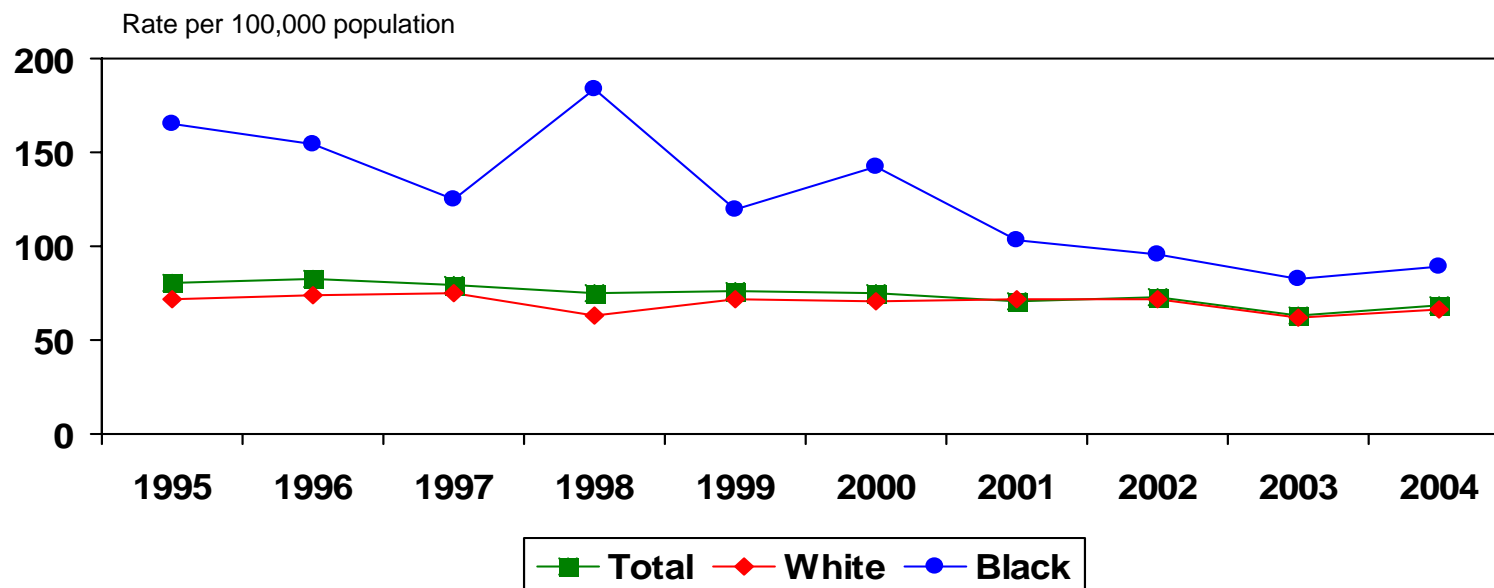


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	23.5	25.6	24.7	23.6	22.8	20.3	16.9	18.2	15.9	20.8
White	22.6	22.9	23.7	22.4	22.9	21.0	17.2	17.6	14.2	20.4
Black	<b>28.5*</b>	47.5	<b>30.7*</b>	<b>29.9*</b>	<b>22.0*</b>	<b>24.1*</b>	<b>17.5*</b>	<b>24.0*</b>	<b>31.5*</b>	<b>24.9*</b>

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Mortality Rates for Youths Aged 15-19 Years, by Race Indiana Residents, 1995-2004

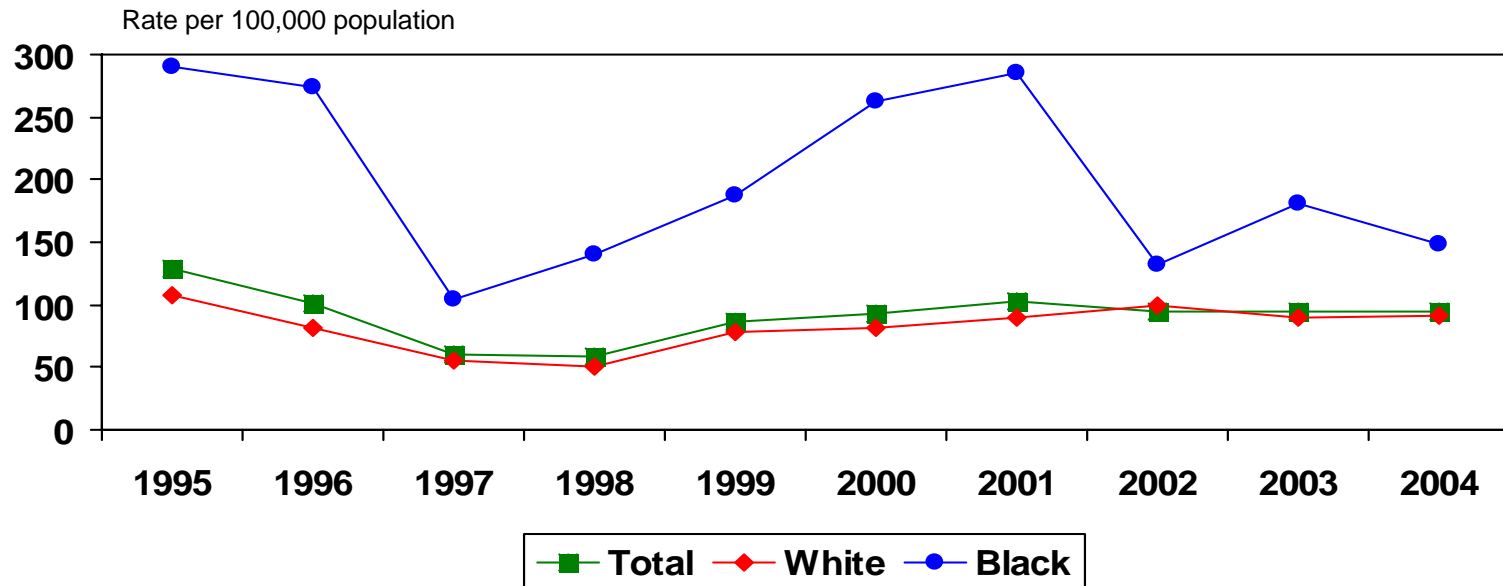


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	80.8	82.4	79.2	74.7	75.7	75.0	71.0	73.1	62.6	68.5
White	71.2	74.4	74.9	63.0	71.8	71.0	71.2	71.2	61.6	66.6
Black	164.7	154.2	124.7	183.8	120.0	142.5	103.4	95.5	82.5	89.1

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



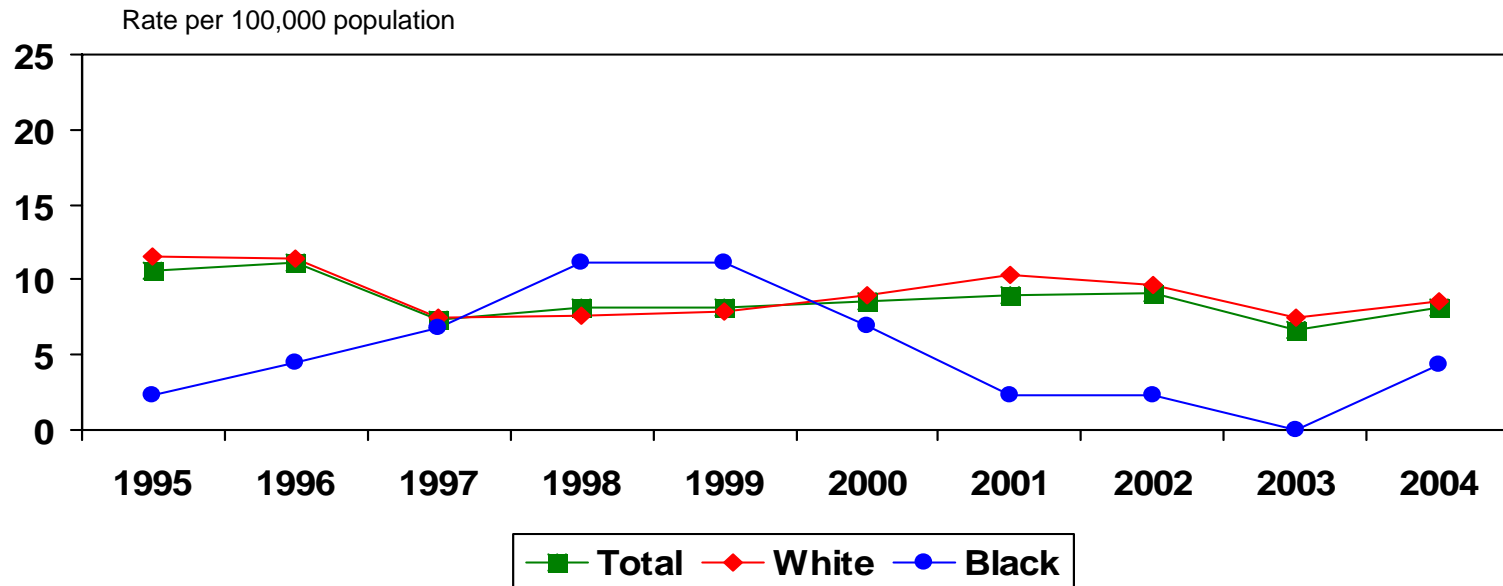
# Mortality Rates for Young Adults Aged 20-21 Years, by Race Indiana Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	128.7	101.3	60.3	58.8	86.9	93.6	102.8	95.0	94.6	95.0
White	108.4	82.3	55.8	49.8	77.8	81.3	89.0	98.7	89.0	91.0
Black	289.8	274.2	103.7	140.7	188.3	262.6	286.0	131.5	180.3	148.4

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Suicide Mortality Rates Among Youths Aged 15-19 Years, by Race Indiana Residents, 1995-2004

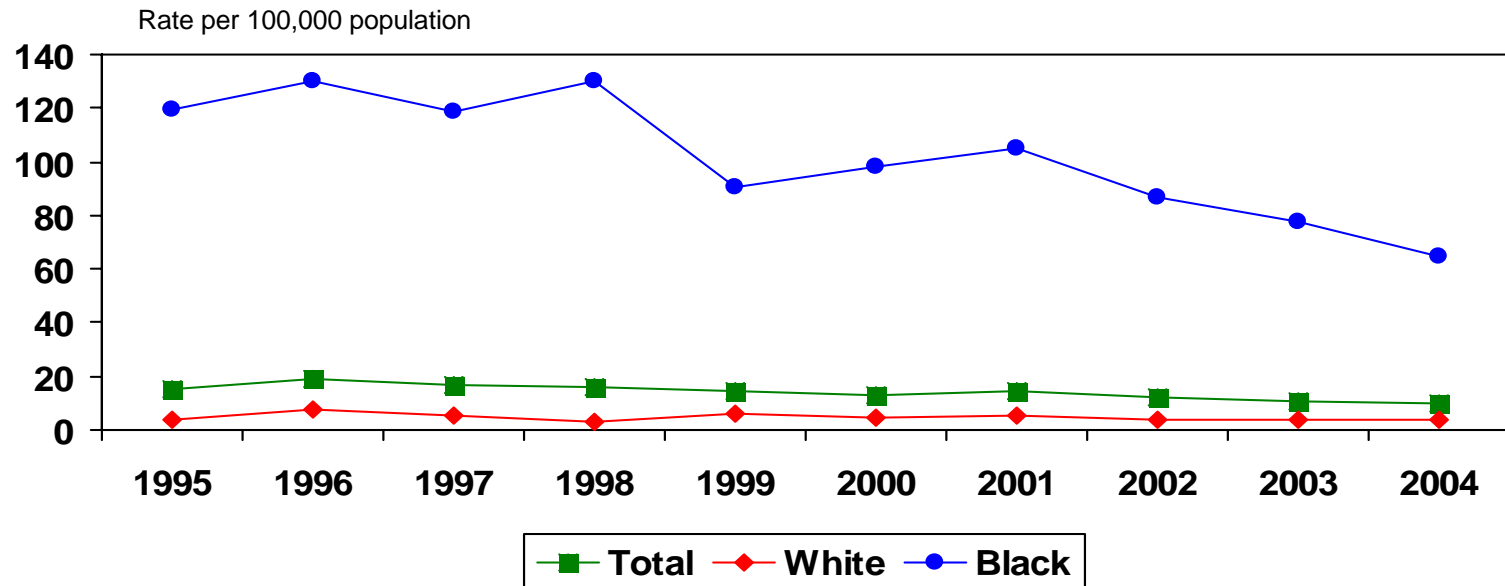


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	10.6	11.1	7.3	8.1	8.1	8.6	9.0	9.1	6.6	8.1
White	11.6	11.4	7.5	7.6	7.9	9.0	10.3	9.6	7.5	8.5
Black	2.3*	4.5*	6.8*	11.2*	11.1*	6.9*	2.3*	2.3*	0.0*	4.3*

\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Homicide Mortality Rates Among Those Aged 15-24 Years, by Race Indiana Residents, 1995-2004

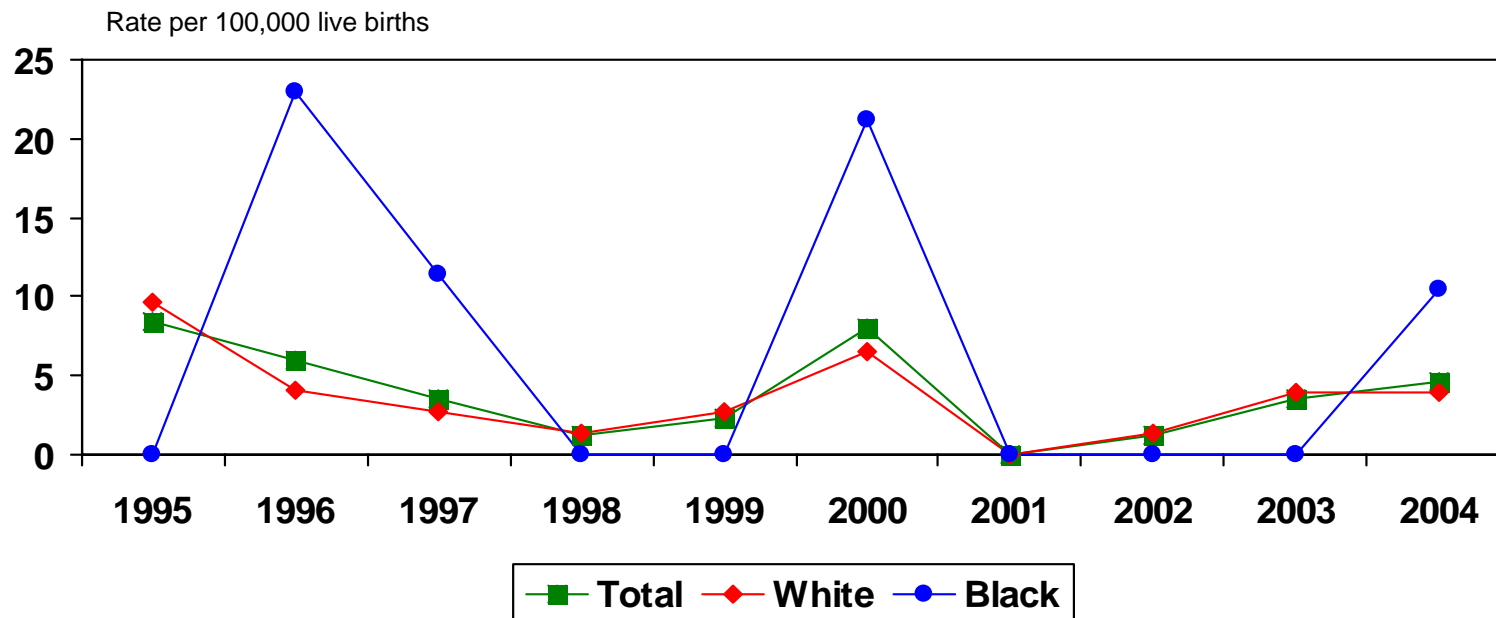


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	15.4	19.3	16.5	16.0	14.1	12.9	14.7	12.1	10.6	10.1
White	3.8	7.5	5.5	3.4	5.9	4.2	5.5	4.1	3.6	4.1
Black	119.8	130.0	118.4	130.4	90.5	98.1	105.2	86.7	77.9	64.4

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Maternal Mortality Rates by Race

## Indiana Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	8.4*	6.0*	3.6*	1.2*	2.3*	8.0*	0.0*	1.2*	3.5*	4.6*
White	9.6*	4.1*	2.7*	1.3*	2.7*	6.5*	0.0*	1.4*	4.0*	4.0*
Black	0.0*	22.9*	11.4*	0.0*	0.0*	21.2*	0.0*	0.0*	0.0*	10.4*

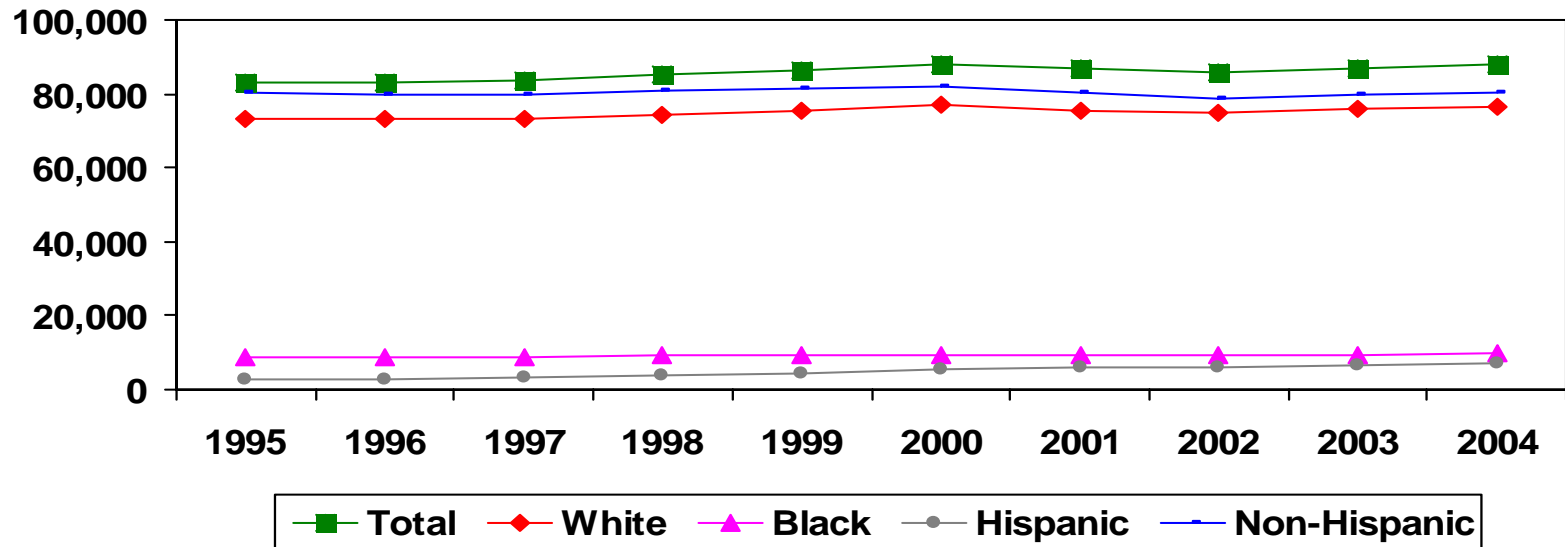
\*Numerator is less than 20, and the rate is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Number of Occurrent Live Births\*

## by Race and Ethnicity

### Indiana, 1995-2004



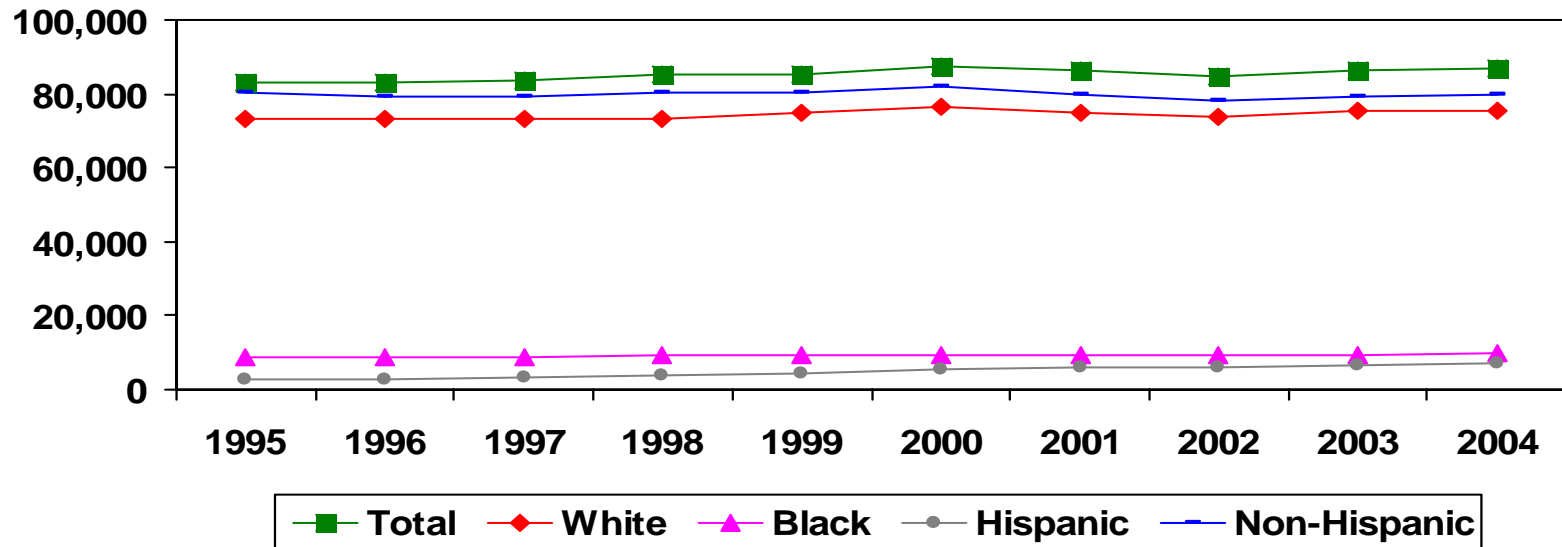
\*Live births occurring in Indiana regardless of mother's state of residence.

Notes: Hispanic ethnicity can be of any race.

Some corrections have been made to 1997, 2000, and 2001 data.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Number of Resident Live Births\* by Race and Ethnicity Indiana, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	82,918	83,157	83,385	85,055	85,489	87,697	86,122	84,839	86,382	87,125
White	73,001	73,074	73,344	74,374	74,787	76,753	75,056	74,013	75,422	75,680
Black	8,752	8,746	8,739	9,216	9,244	9,421	9,531	9,243	9,288	9,582
Hispanic	2,525	2,941	3,393	3,781	4,383	5,427	5,865	6,145	6,763	7,237
Non-Hispanic	80,242	79,215	79,178	80,234	80,467	81,947	79,883	78,346	79,261	79,537

\*Live births to Indiana residents regardless of state where mother gave birth.

Note: Hispanic ethnicity can be of any race.

Some corrections have been made to 1994, 1995, and 1998 data.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

**The 4:3:1 Immunization of Two-Year-Olds in Indiana\***  
**National Immunization Survey, CDC**

	<b>Statewide</b>	<b>Indianapolis</b>	<b>Balance of State</b>
January 2004-December 2004	81%	82%	81%
January 2003-December 2003	82%	80%	82%
January 2002-December 2002	79%	76%	80%
January 2001-December 2001	73%	73%	72%
January 2000-December 2000	78%	71%	79%
January 1999-December 1999	75%	80%	75%
January 1998-December 1998	79%	78%	79%
January 1997-December 1997	74%	82%	72%
July 1996-June 1997	73%	79%	72%
January 1996-December 1996	73%	73%	72%
January 1995-December 1995	76%	78%	75%

\*The percentage of children aged 19-35 months vaccinated with the combined series of four or more doses of DTP/DT, three or more doses of poliovirus vaccine, and one or more doses of MCV.  
(DTP/DT is Diphtheria, Tetanus, and Pertussis / Diphtheria and Tetanus. MCV is Meningococcal Conjugate Vaccine.)

Source: U.S. Department of Health & Human Services, Centers for Disease Control and Prevention,  
National Immunization Surveys

**The 4:3:1:3 Immunization of Two-Year-Olds in Indiana\***  
**National Immunization Survey, CDC**

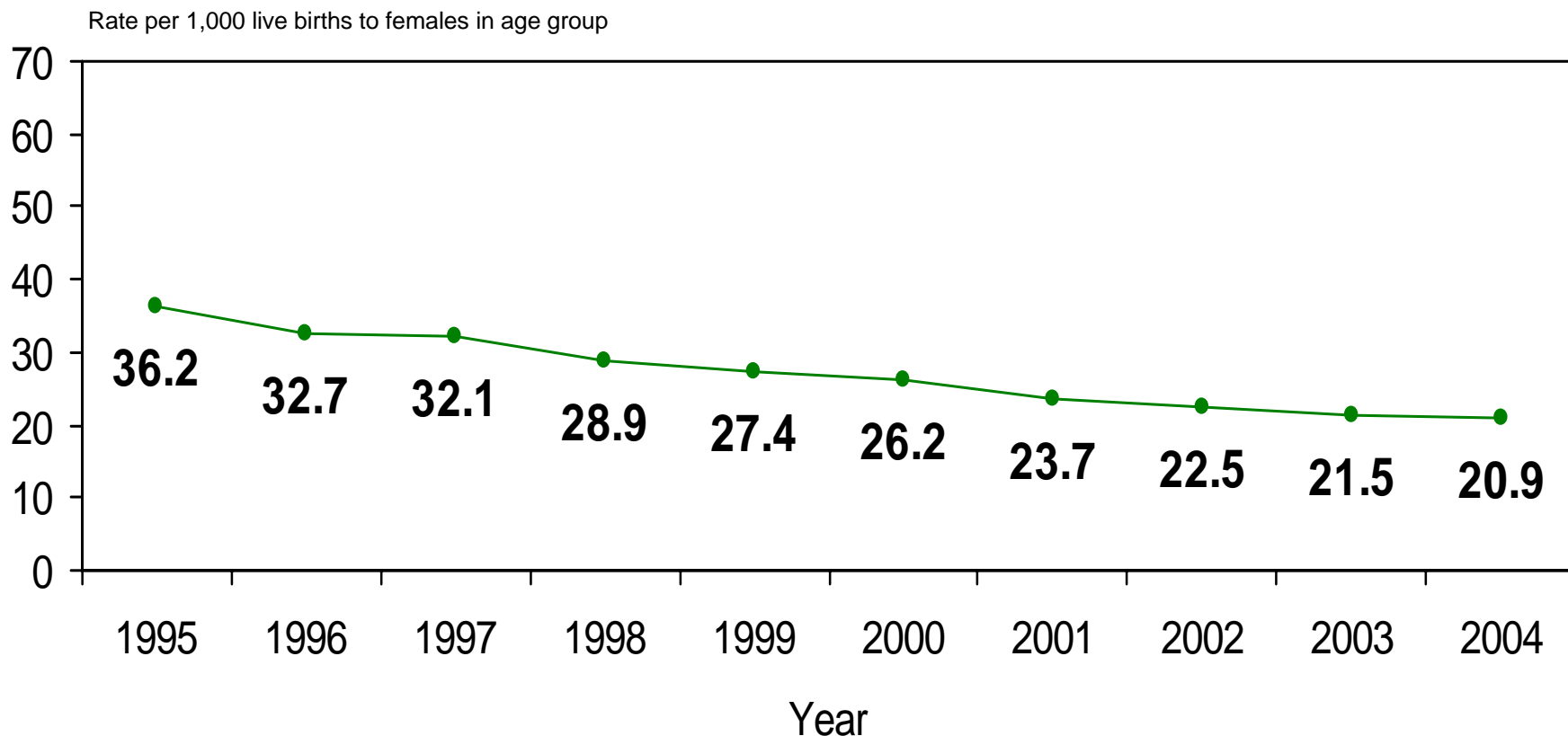
	<b>Statewide</b>	<b>Indianapolis</b>	<b>Balance of State</b>
January 2004-December 2004	81%	82%	81%
January 2003-December 2003	82%	79%	82%
January 2002-December 2002	78%	75%	78%
January 2001-December 2001	72%	71%	72%
January 2000-December 2000	76%	69%	78%
January 1999-December 1999	74%	79%	73%
January 1998-December 1998	78%	78%	77%
January 1997-December 1997	72%	81%	70%
July 1996-June 1997	71%	78%	70%
January 1996-December 1996	70%	72%	70%
January 1995-December 1995	75%	75%	74%

\*The percentage of children aged 19-35 months vaccinated with the combined series of four or more doses of DTP/DT, three or more doses of poliovirus vaccine, one or more doses of MCV, and three or more doses of Hib. (DTP/DT is Diphtheria, Tetanus, and Pertussis / Diphtheria and Tetanus. MCV is Meningococcal Conjugate Vaccine. Hib is Haemophilus influenzae type b.)

Source: U.S. Department of Health & Human Services, Centers for Disease Control and Prevention, National Immunization Surveys



# Age-Specific Birth Rates Females Aged 15-17 Years Indiana Residents, 1995-2004

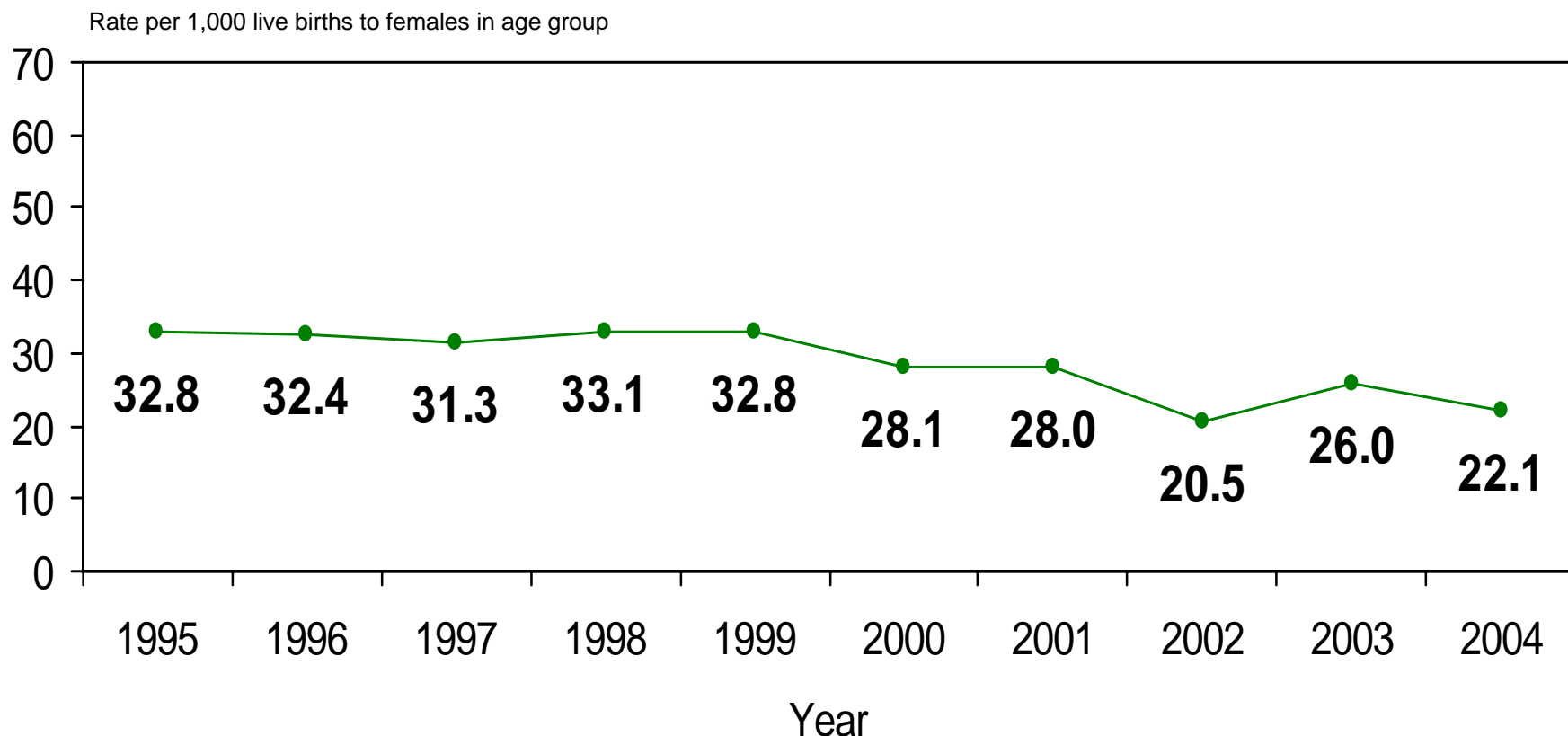


Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Age-Specific Birth Rates

## Females Aged 15-17 Years

### Allen County Residents, 1995-2004

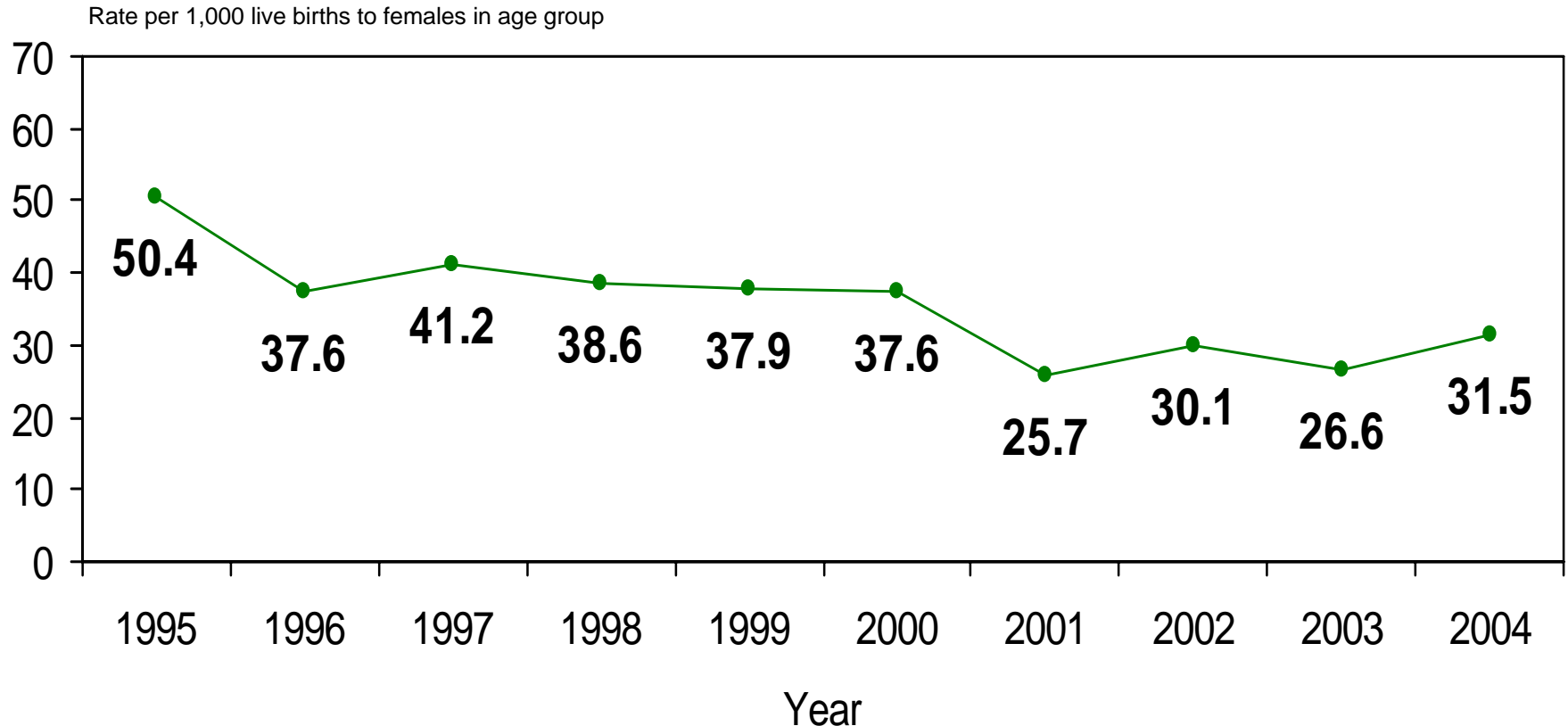


Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Age-Specific Birth Rates

## Females Aged 15-17 Years

### Elkhart County Residents, 1995-2004

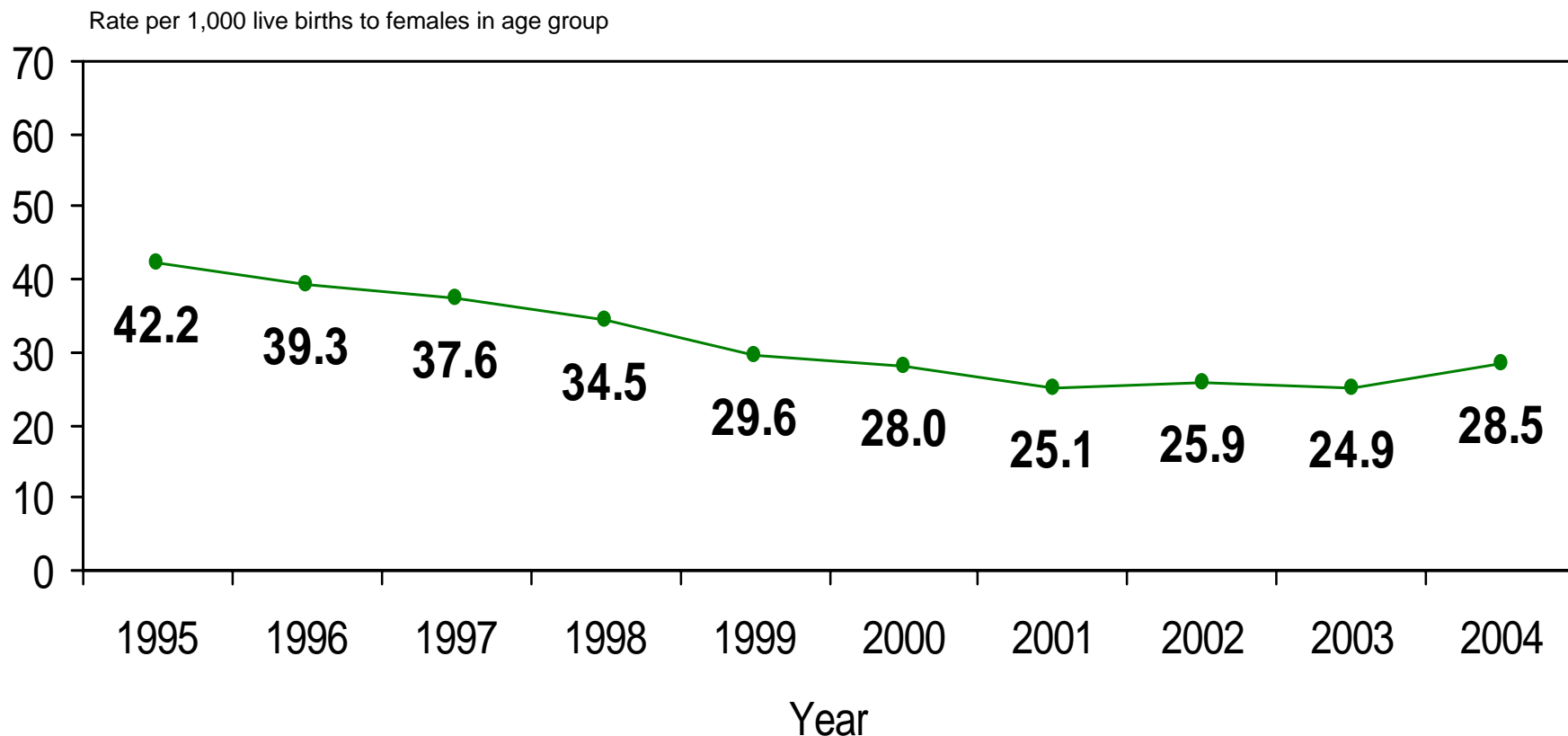


Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Age-Specific Birth Rates

## Females Aged 15-17 Years

### Lake County Residents, 1995-2004

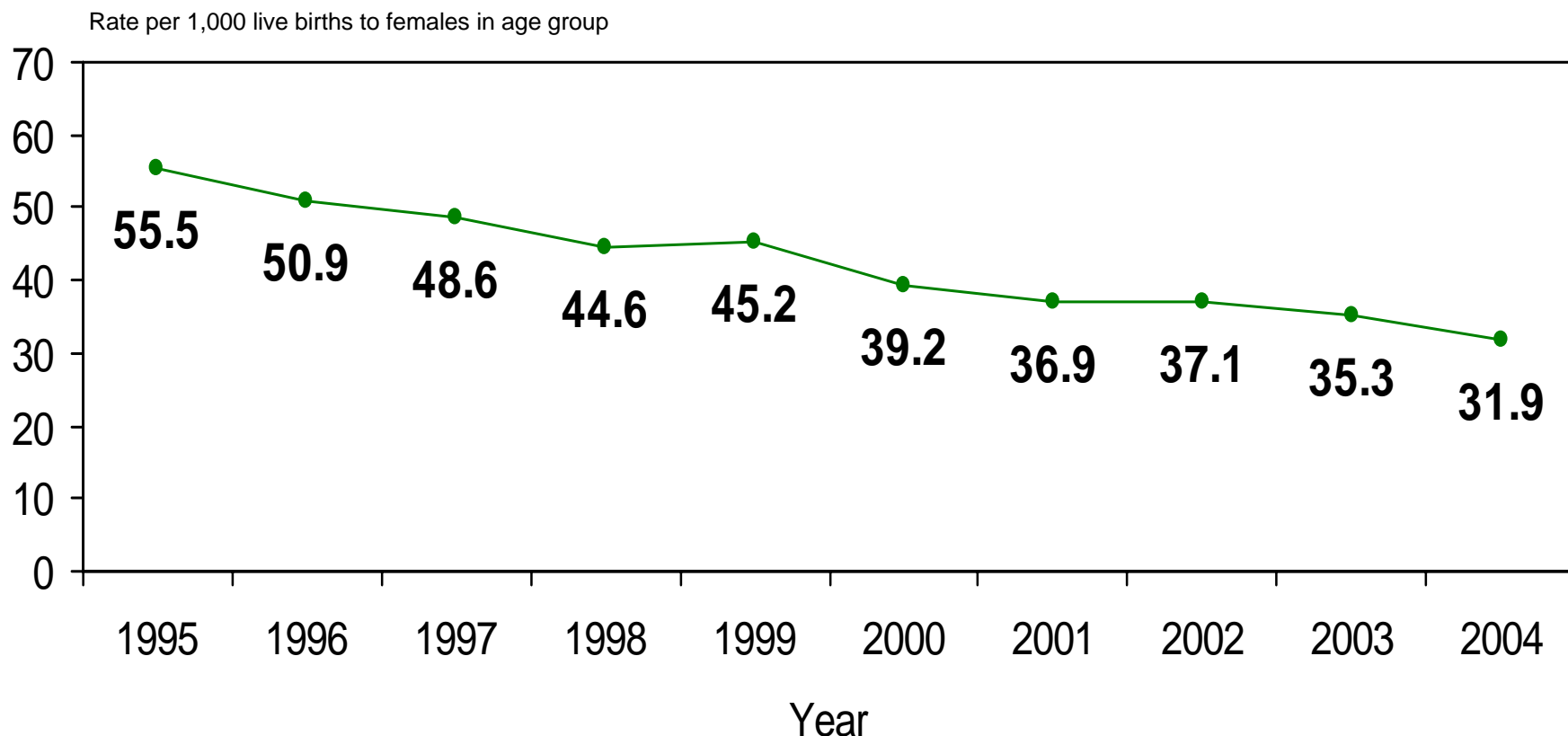


Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Age-Specific Birth Rates

## Females Aged 15-17 Years

### Marion County Residents, 1995-2004

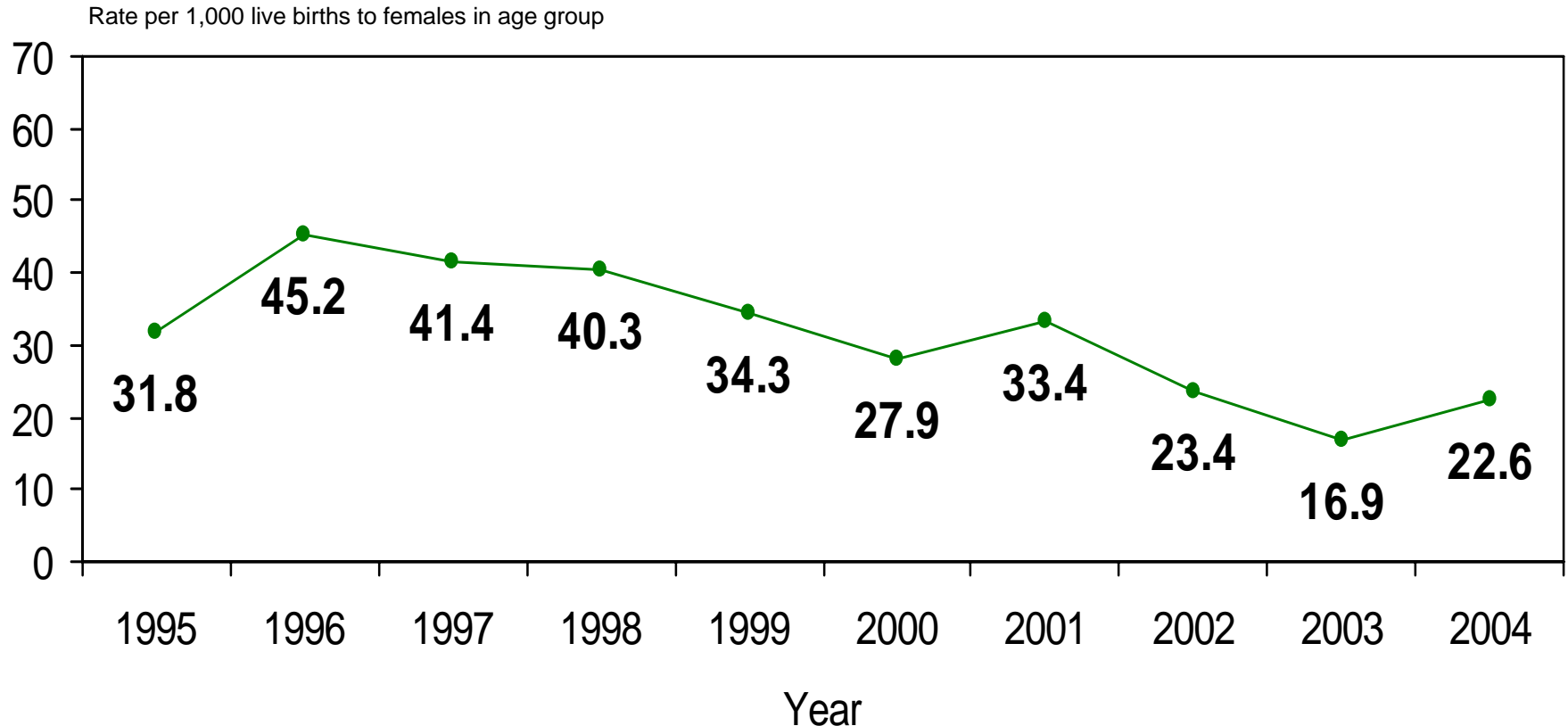


Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Age-Specific Birth Rates

## Females Aged 15-17 Years

### St. Joseph County Residents, 1995-2004

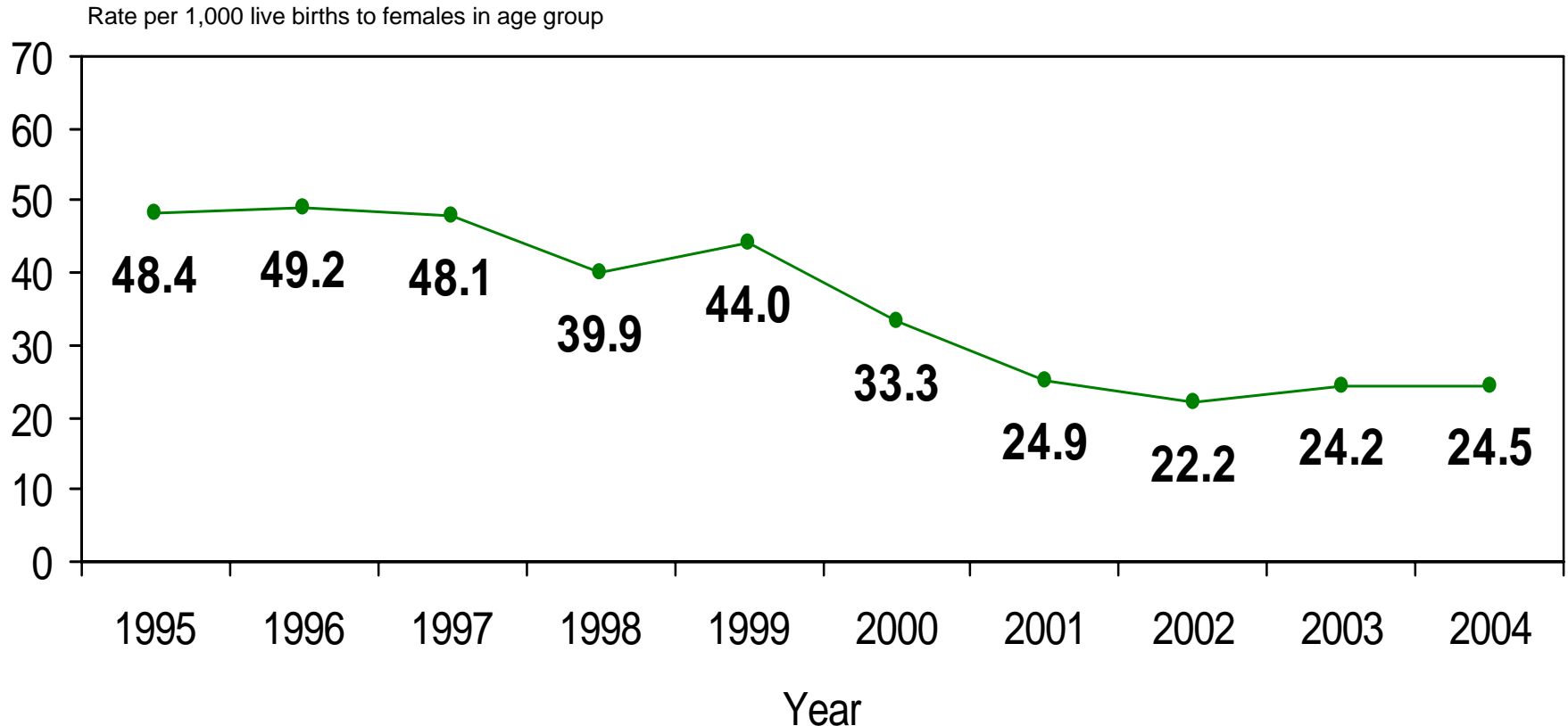


Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Age-Specific Birth Rates

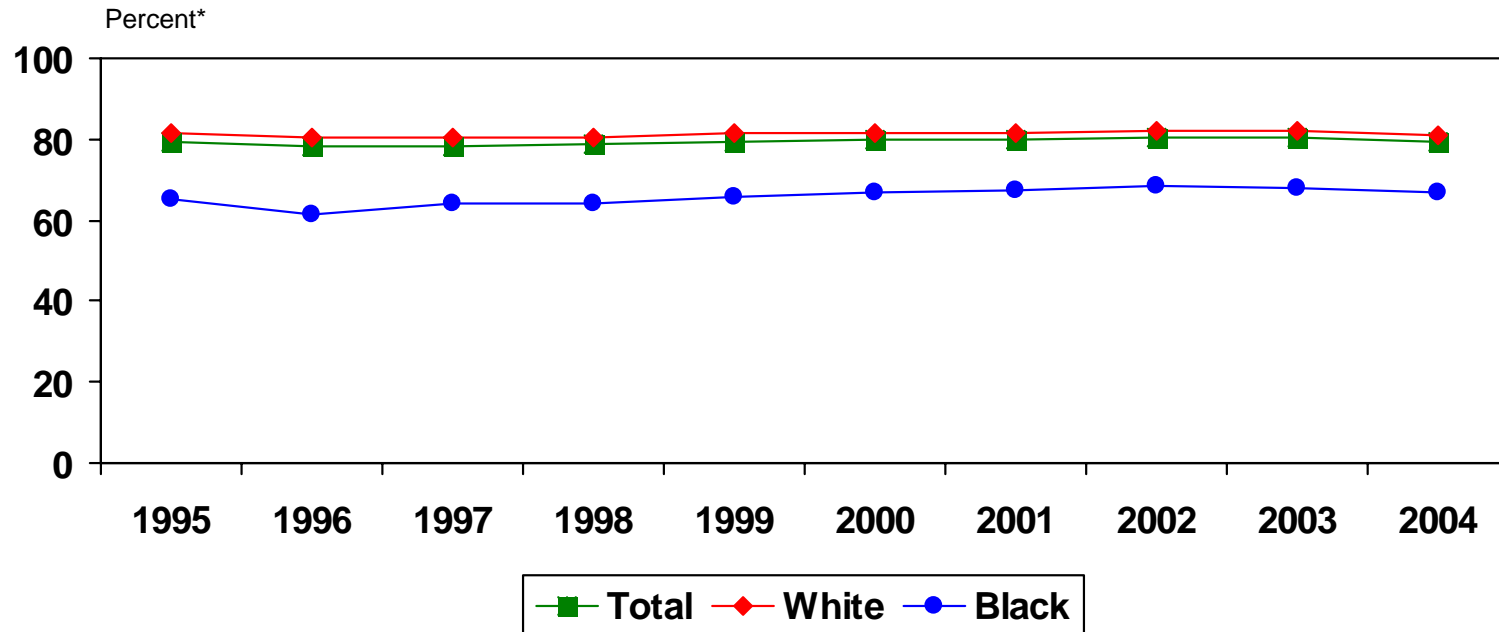
## Females Aged 15-17 Years

### Vanderburgh County Residents, 1995-2004



Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race Indiana Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	79.5	78.5	78.5	78.7	79.5	80.0	79.8	80.5	80.6	79.3
White	81.3	80.6	80.3	80.6	81.3	81.6	81.4	82.1	82.1	80.8
Black	65.1	61.6	64.0	63.9	65.5	67.1	67.6	68.6	68.2	67.1

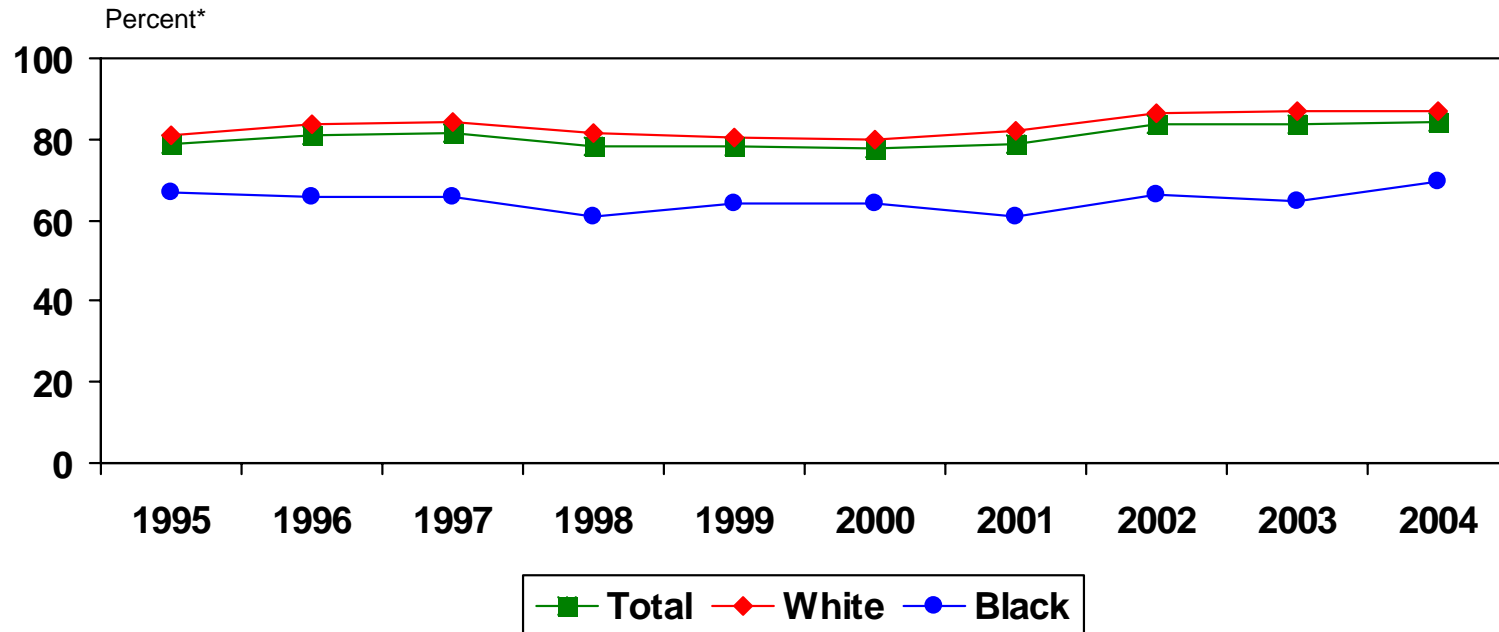
\*The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race

## Allen County Residents, 1995-2004

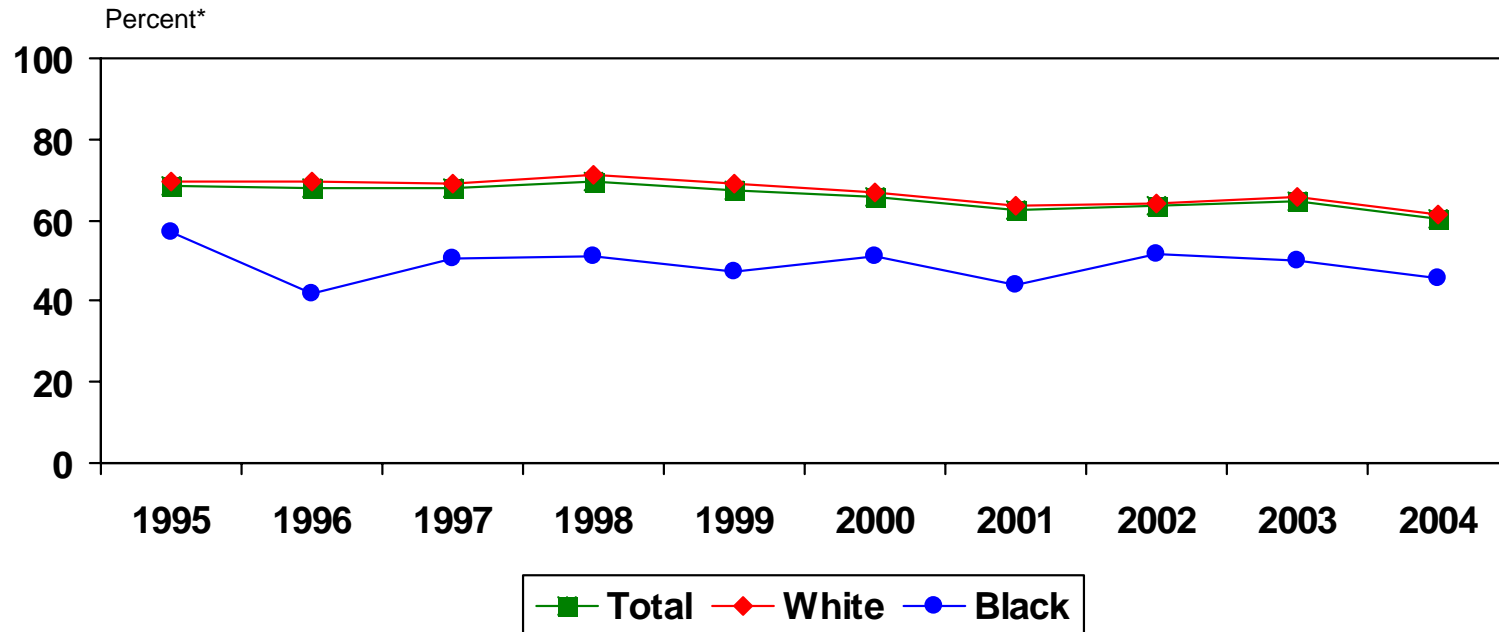


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	78.8	80.8	81.4	78.3	78.2	77.5	78.9	83.5	83.9	84.2
White	81.0	83.5	84.5	81.5	80.7	79.7	82.3	86.4	87.1	86.8
Black	66.8	65.9	66.0	61.0	64.3	64.3	61.0	66.2	64.6	69.5

\*The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race Elkhart County Residents, 1995-2004

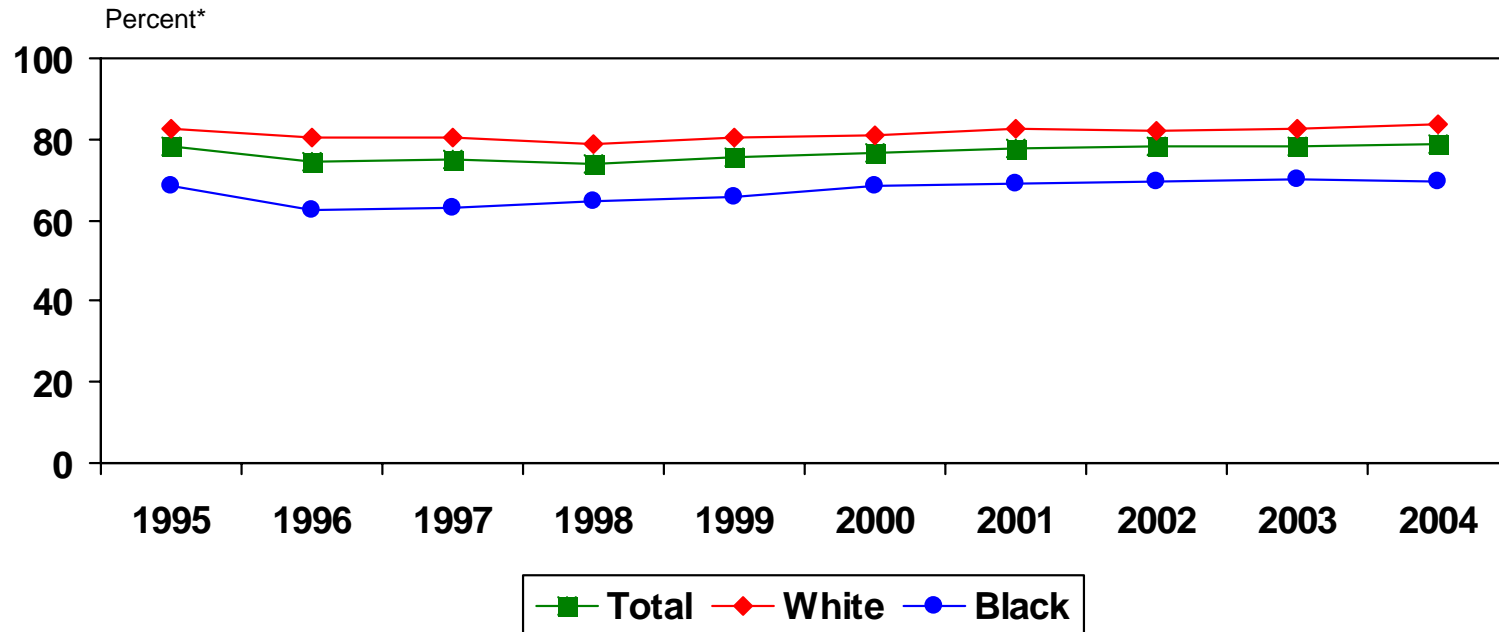


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	68.6	67.9	67.9	69.8	67.6	65.8	62.4	63.5	64.6	60.5
White	69.4	69.4	69.1	71.2	69.1	66.7	63.6	64.3	65.5	61.4
Black	56.9	41.9	50.5	50.9	47.4	50.9	44.1	51.5	50.0	45.9

\*The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race Lake County Residents, 1995-2004

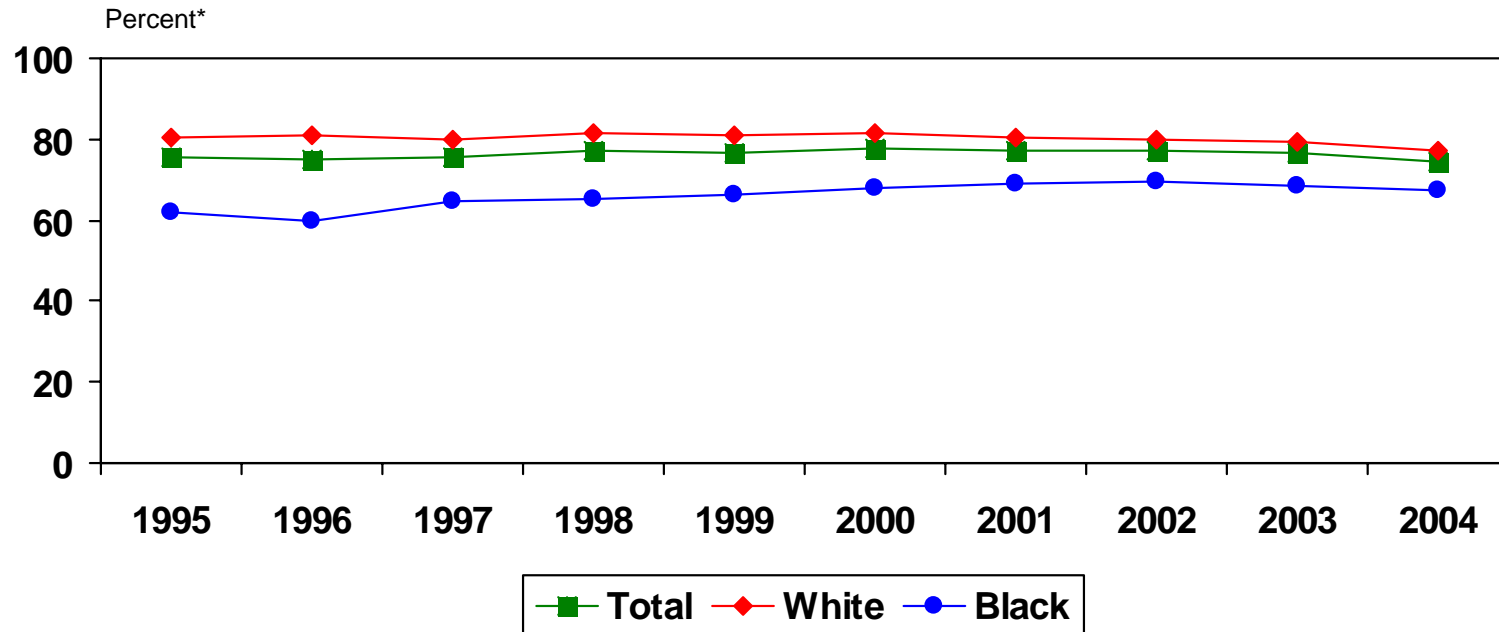


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	78.1	74.6	74.9	74.1	75.7	76.9	77.9	78.2	78.5	79.0
White	82.6	80.3	80.2	78.8	80.5	81.1	82.4	82.3	82.7	83.5
Black	68.7	62.4	63.3	64.5	65.8	68.3	69.0	69.4	69.9	69.5

\*The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race Marion County Residents, 1995-2004

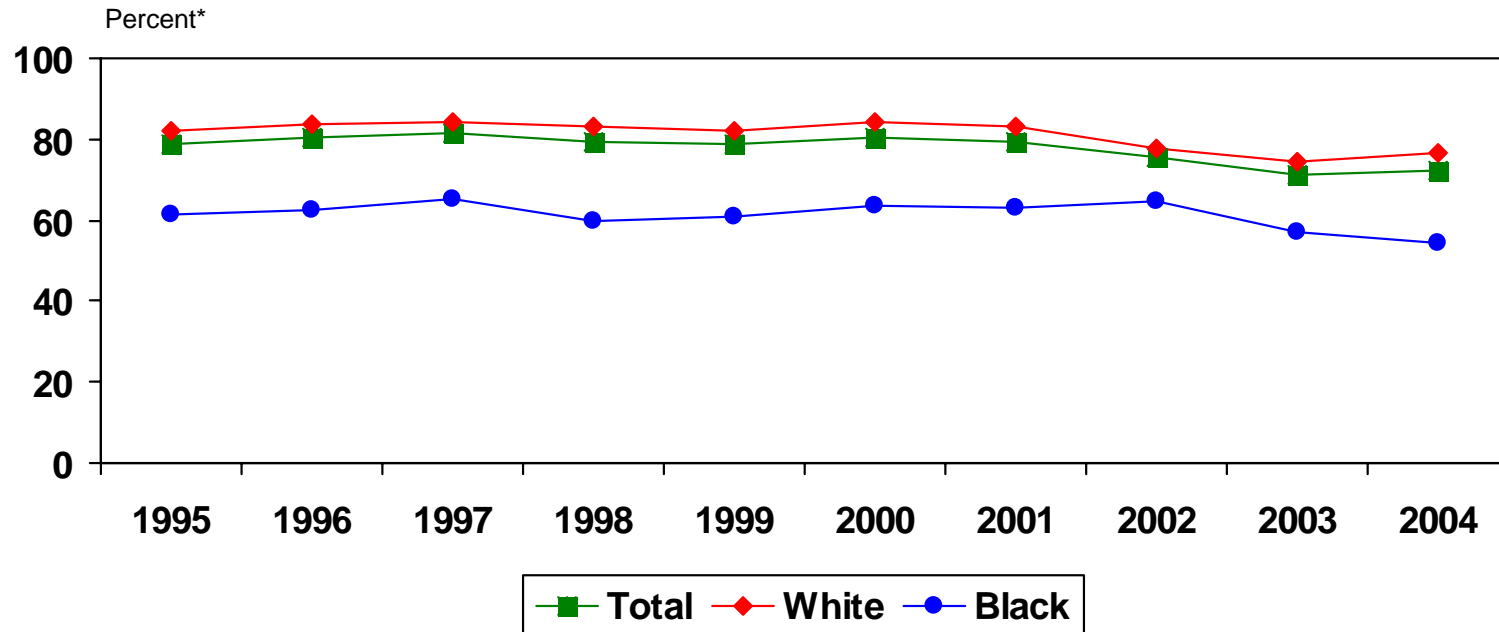


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	75.7	75.1	75.7	77.0	76.9	77.5	77.1	77.0	76.4	74.6
White	80.4	80.9	79.8	81.5	81.0	81.5	80.4	80.1	79.3	77.4
Black	62.1	59.7	64.5	65.4	66.5	68.0	69.2	69.3	68.7	67.3

\*The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race St. Joseph County Residents, 1995-2004

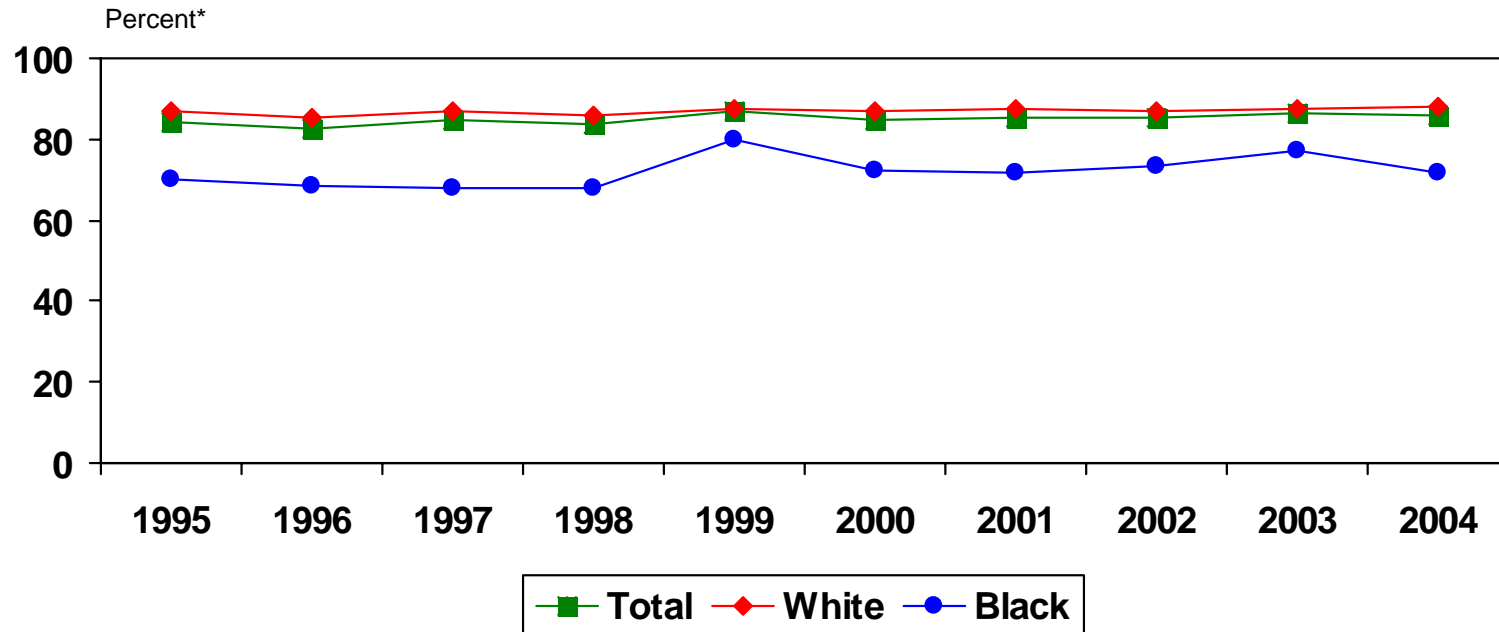


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	78.6	80.3	81.3	79.2	78.8	80.5	79.5	75.5	71.3	72.5
White	82.0	83.7	84.4	82.9	82.3	84.0	83.2	77.9	74.7	76.5
Black	61.4	62.3	65.2	60.0	60.7	63.8	63.1	64.5	56.9	54.3

\*The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Infants Born to Mothers Receiving Prenatal Care in the First Trimester, by Race Vanderburgh County Residents, 1995-2004



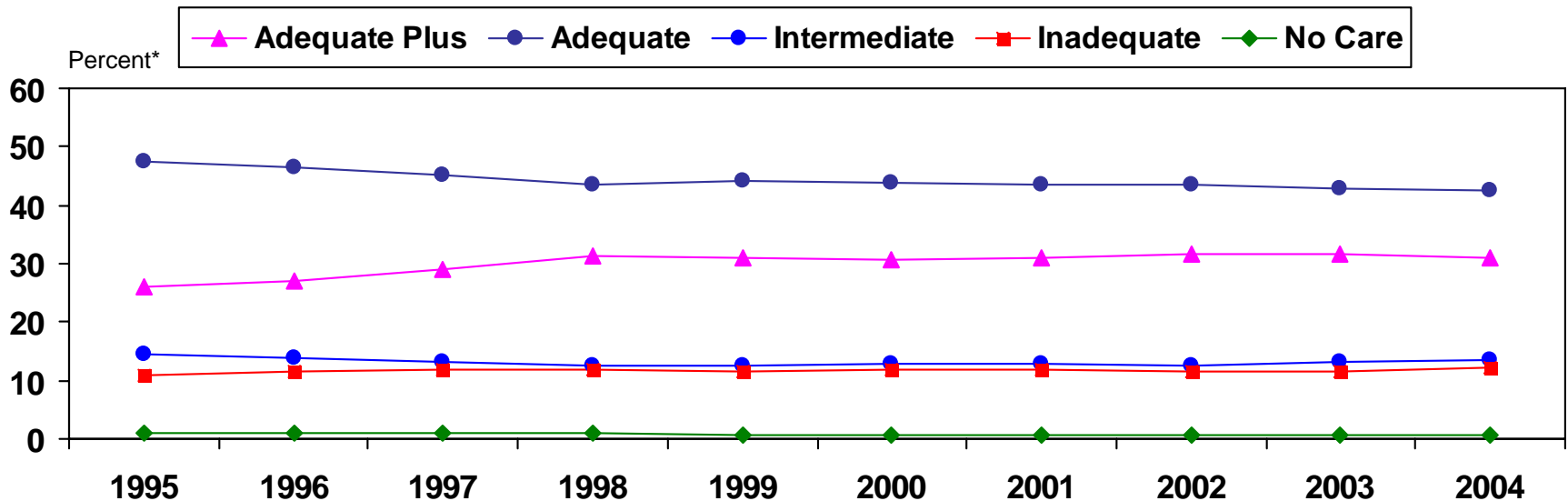
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	84.5	82.8	84.6	83.5	86.7	84.8	85.3	85.1	86.2	85.8
White	86.9	85.2	87.0	85.9	87.7	86.7	87.4	86.9	87.4	87.9
Black	70.1	68.5	68.1	68.0	79.8	72.5	71.8	73.5	77.1	71.6

\*The values are percentages of live births and include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Prenatal Care Utilization (Kotelchuck) Index

## All Races, Indiana Residents, 1995-2004



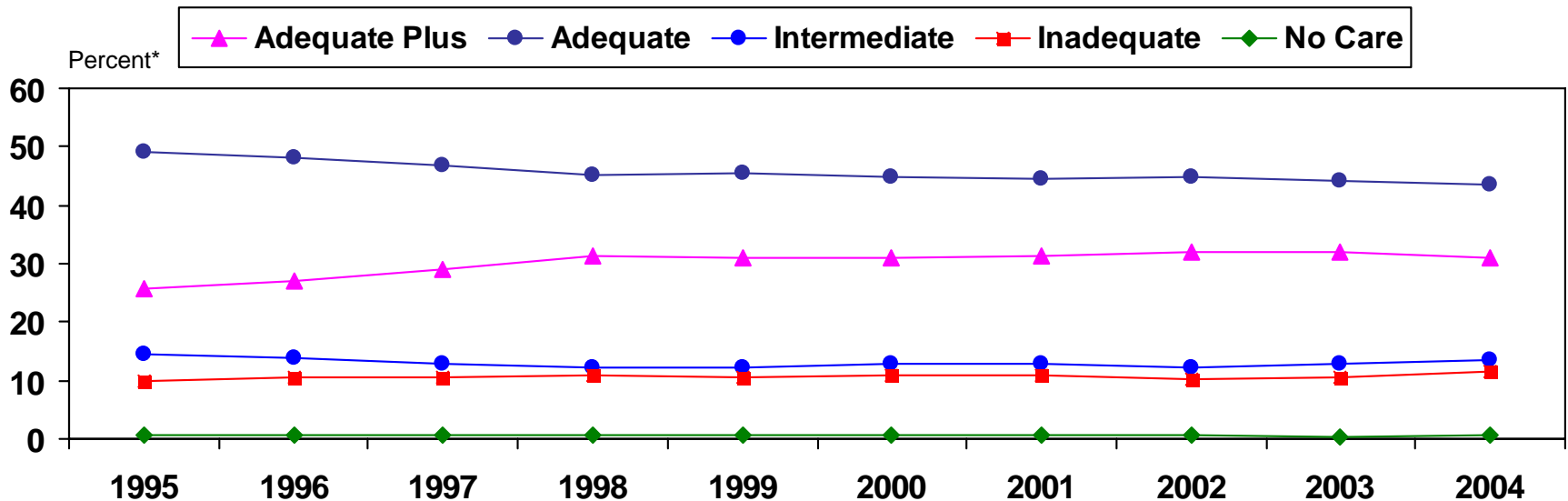
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Adequate Plus	25.9	27.1	28.9	31.2	31.1	30.8	31.0	31.8	31.8	31.0
Adequate	47.5	46.5	45.3	43.5	44.2	43.7	43.4	43.6	42.9	42.4
Intermediate	14.6	13.8	13.1	12.4	12.4	12.9	13.0	12.5	13.2	13.6
Inadequate	11.0	11.7	11.9	12.0	11.7	11.8	11.9	11.4	11.5	12.3
No Care	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.7	0.6	0.8

\*The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Prenatal Care Utilization (Kotelchuck) Index

## White Population, Indiana Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Adequate Plus	25.8	27.0	28.9	31.2	31.1	30.9	31.2	31.9	32.0	31.0
Adequate	49.1	48.2	46.8	45.1	45.6	45.0	44.6	45.0	44.1	43.6
Intermediate	14.5	13.7	12.9	12.3	12.3	12.8	12.8	12.3	13.0	13.4
Inadequate	9.9	10.4	10.7	10.8	10.4	10.8	10.8	10.3	10.5	11.4
No Care	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.5	0.4	0.6

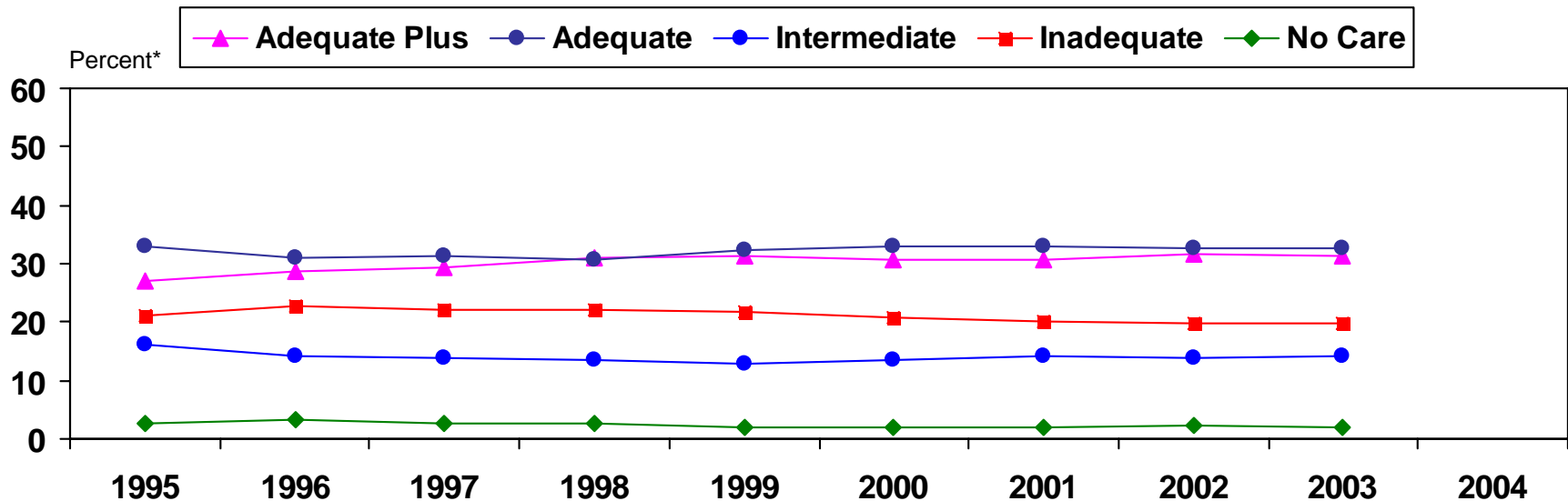
\*The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Prenatal Care Utilization (Kotelchuck) Index

## Black Population, Indiana Residents, 1995-2004

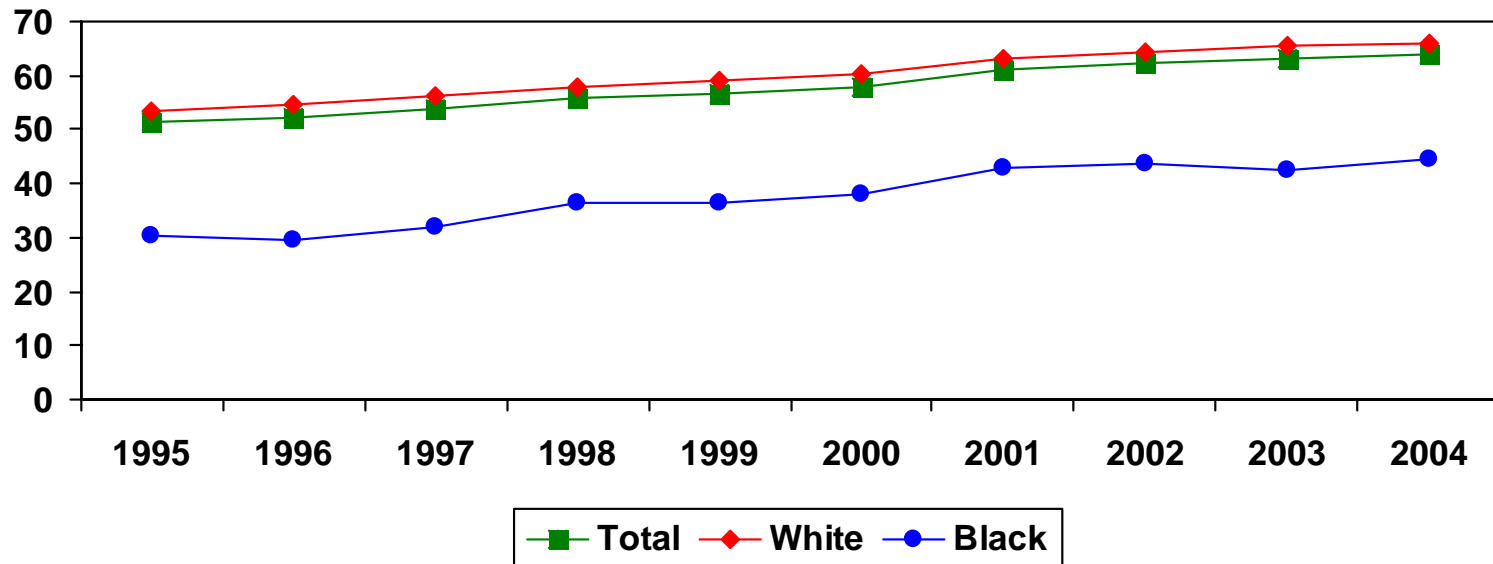


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Adequate Plus	27.1	28.6	29.5	30.9	31.3	30.7	30.5	31.6	31.4	31.4
Adequate	32.9	31.1	31.4	30.7	32.2	33.0	33.0	32.6	32.6	32.5
Intermediate	16.0	14.3	14.0	13.4	12.7	13.5	14.1	13.7	14.1	14.3
Inadequate	21.2	22.8	22.2	22.2	21.7	20.7	20.2	19.8	19.7	19.4
No Care	2.7	3.2	2.8	2.8	2.1	2.1	2.1	2.4	2.1	2.4

\*The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Mothers Who Breastfed Their Infants at Hospital Discharge, by Race Indiana Residents, 1995-2004



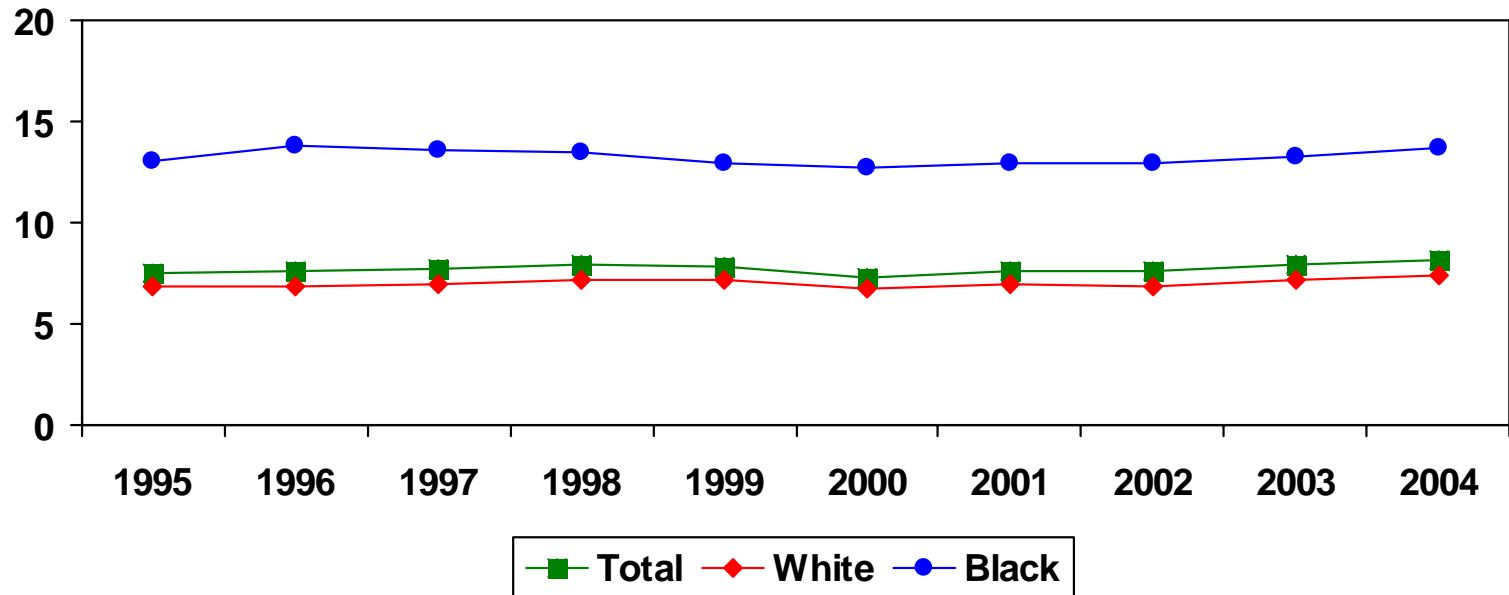
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	51.2	52.2	53.8	55.9	56.8	58.0	61.1	62.4	63.2	63.8
White	53.5	54.6	56.1	58.0	59.0	60.2	63.1	64.4	65.5	65.8
Black	30.2	29.5	31.9	36.6	36.4	38.1	42.9	43.5	42.6	44.6

1995-1997 data have been corrected.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Low Birthweight Infants by Race

## Indiana Residents, 1995-2004

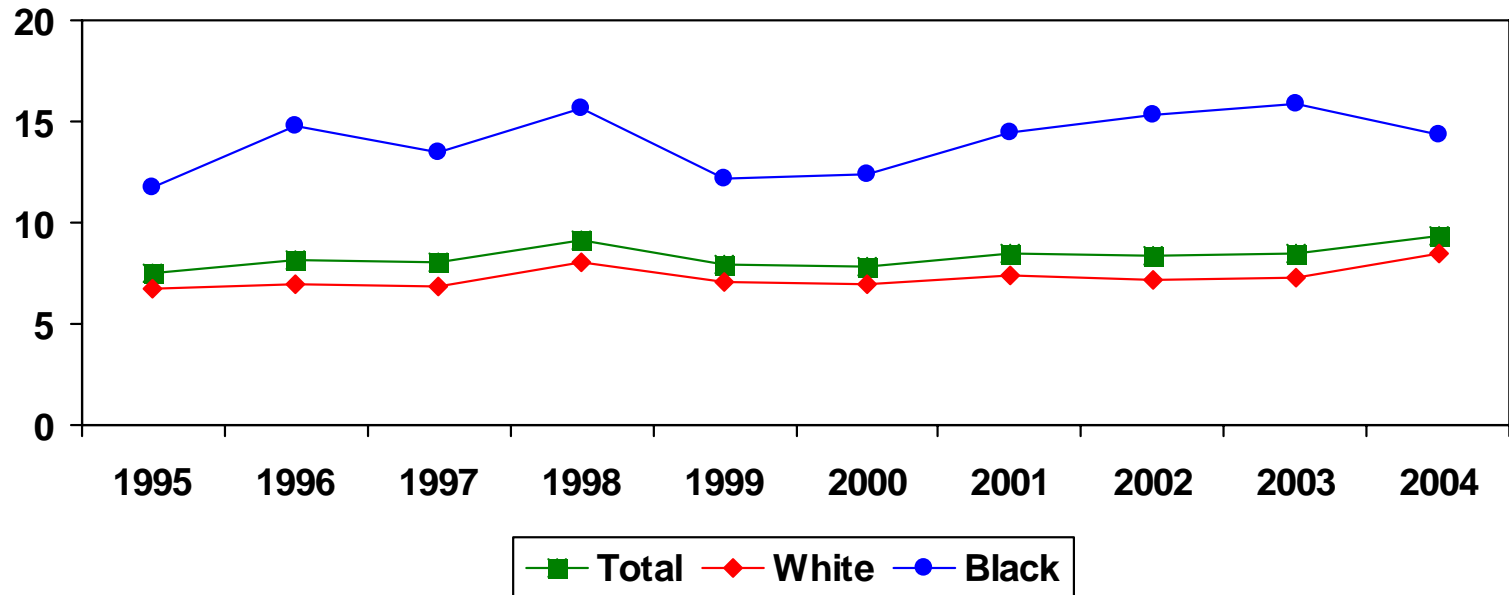


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.5	7.6	7.7	7.9	7.8	7.3	7.6	7.6	7.9	8.1
White	6.8	6.8	7.0	7.2	7.2	6.7	7.0	6.9	7.2	7.4
Black	13.0	13.8	13.6	13.5	12.9	12.7	12.9	12.9	13.3	13.7

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Low Birthweight Infants by Race

## Allen County Residents, 1995-2004

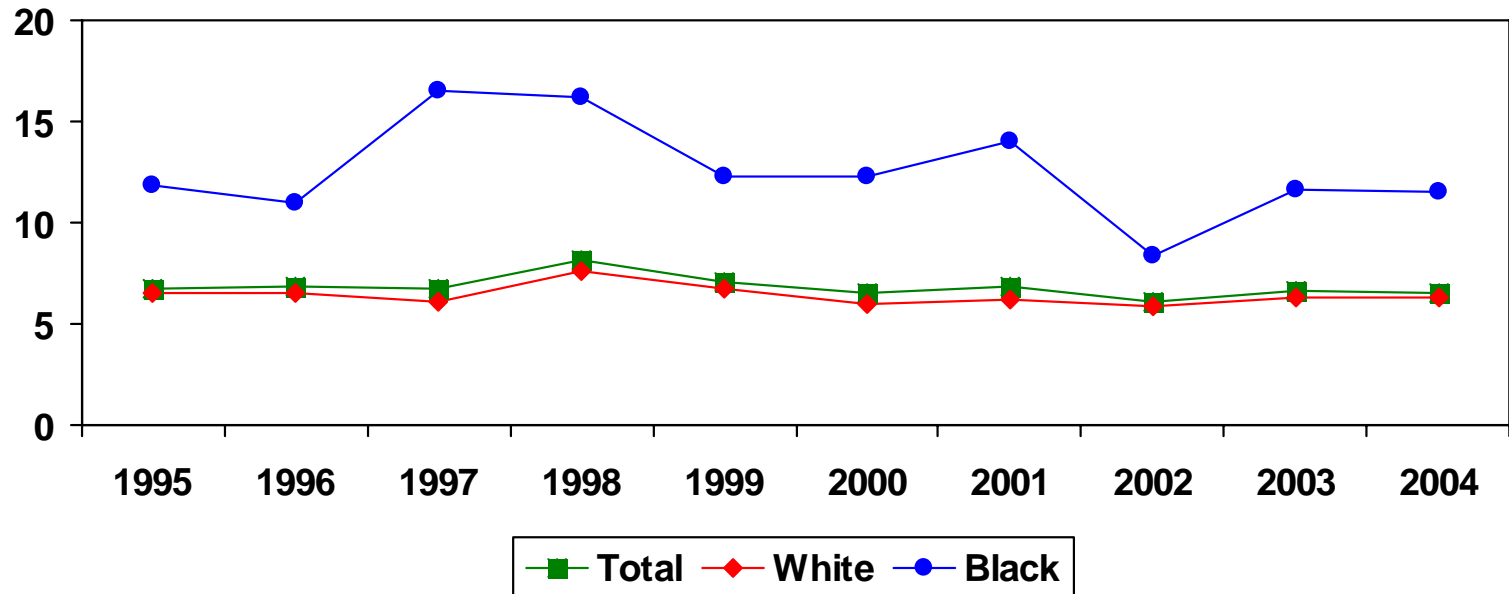


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.5	8.1	8.0	9.1	7.9	7.8	8.5	8.4	8.5	9.4
White	6.7	7.0	6.9	8.0	7.1	7.0	7.4	7.2	7.3	8.5
Black	11.7	14.8	13.5	15.6	12.2	12.4	14.5	15.3	15.9	14.3

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Low Birthweight Infants by Race

## Elkhart County Residents, 1995-2004



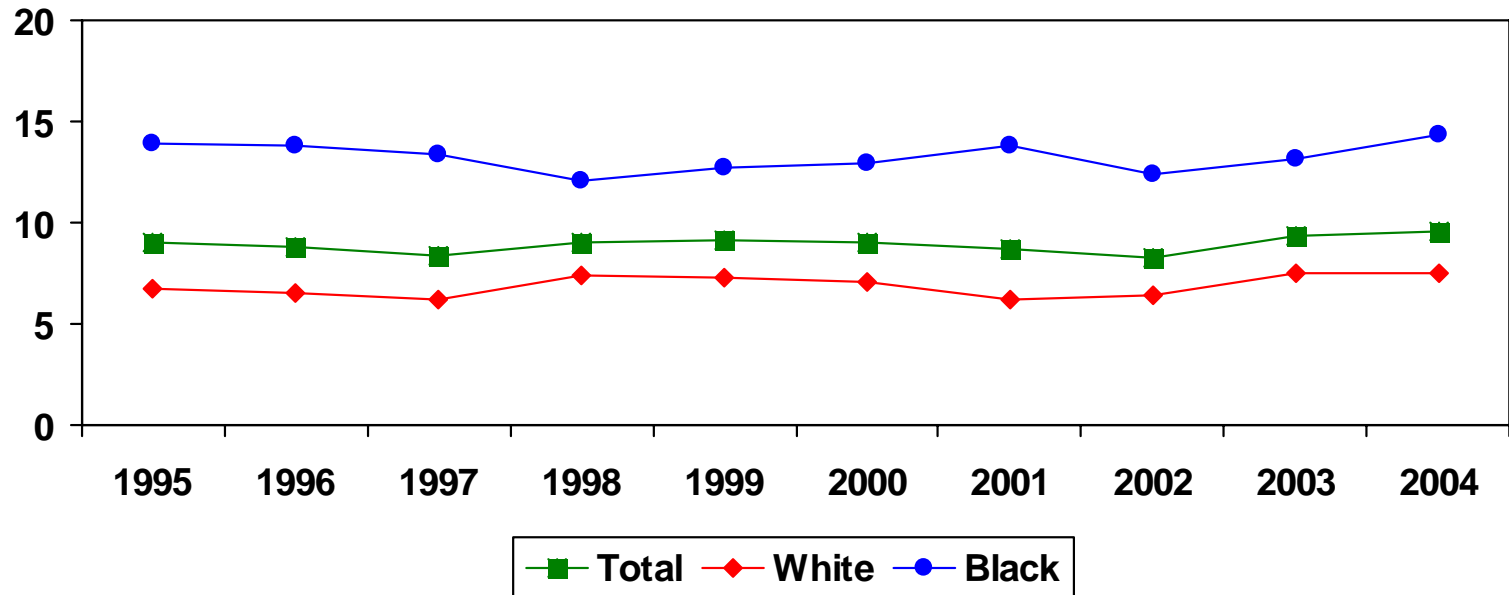
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	6.7	6.8	6.7	8.2	7.1	6.5	6.8	6.1	6.6	6.5
White	6.5	6.5	6.1	7.6	6.7	6.0	6.2	5.9	6.3	6.3
Black	11.9*	11.0*	16.5	16.2	12.3	12.3	14.0	8.4*	11.6	11.5

\*Numerator is less than 20, and the percent is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Low Birthweight Infants by Race

## Lake County Residents, 1995-2004

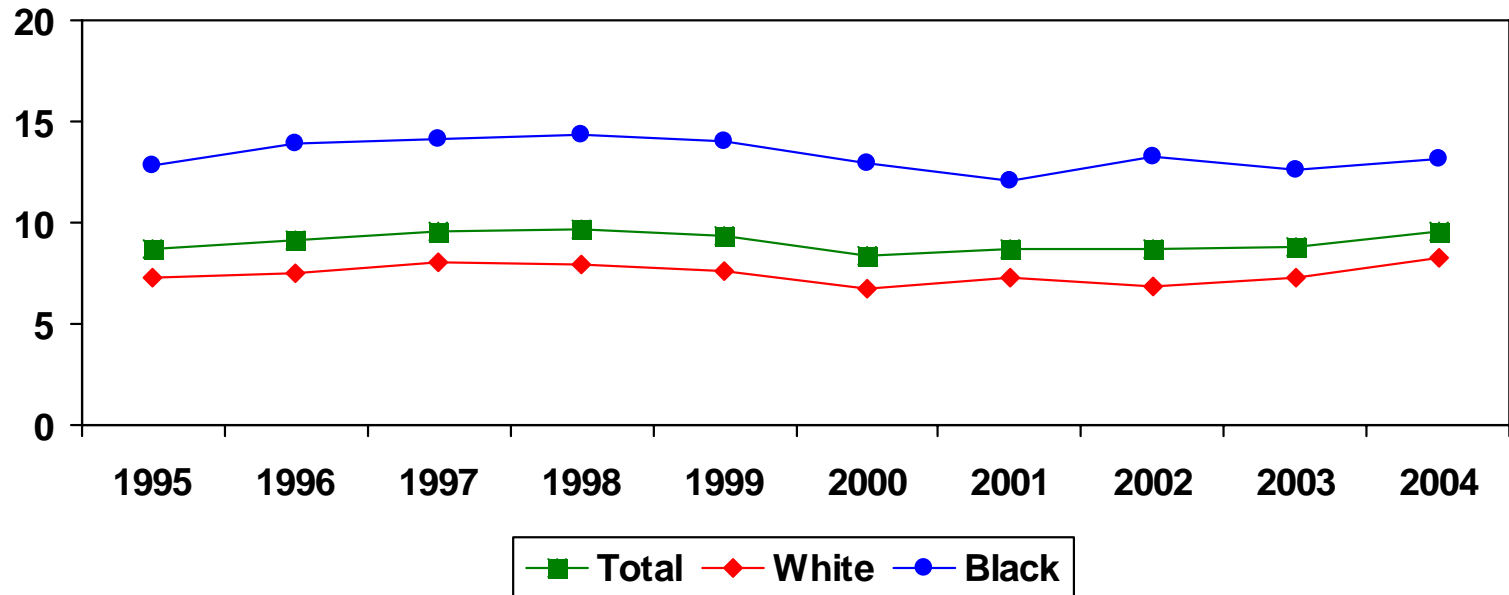


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	9.0	8.8	8.4	9.0	9.1	9.0	8.7	8.3	9.3	9.6
White	6.7	6.5	6.2	7.4	7.3	7.1	6.2	6.4	7.5	7.5
Black	13.9	13.8	13.4	12.1	12.7	12.9	13.8	12.4	13.1	14.4

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Low Birthweight Infants by Race

## Marion County Residents, 1995-2004

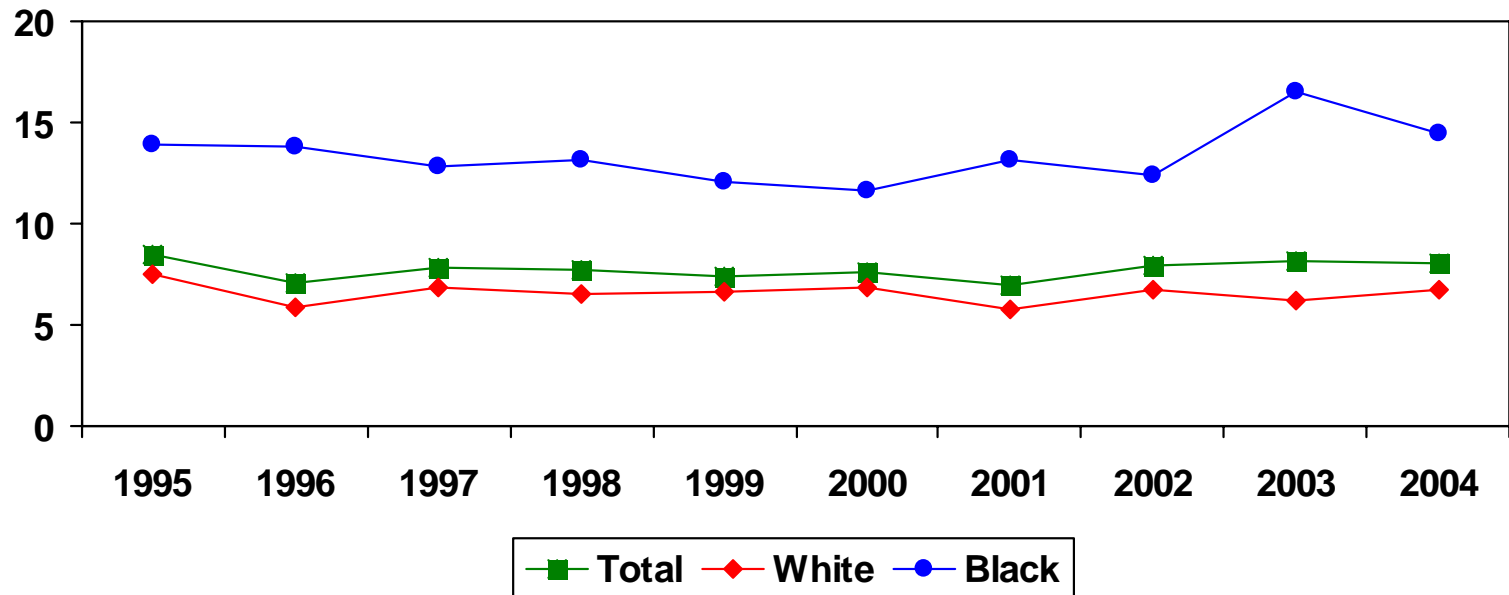


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	8.7	9.1	9.6	9.7	9.4	8.4	8.7	8.7	8.8	9.6
White	7.3	7.5	8.0	7.9	7.6	6.7	7.3	6.9	7.3	8.3
Black	12.8	13.9	14.1	14.4	14.0	12.9	12.1	13.3	12.6	13.2

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Low Birthweight Infants by Race

## St. Joseph County Residents, 1995-2004



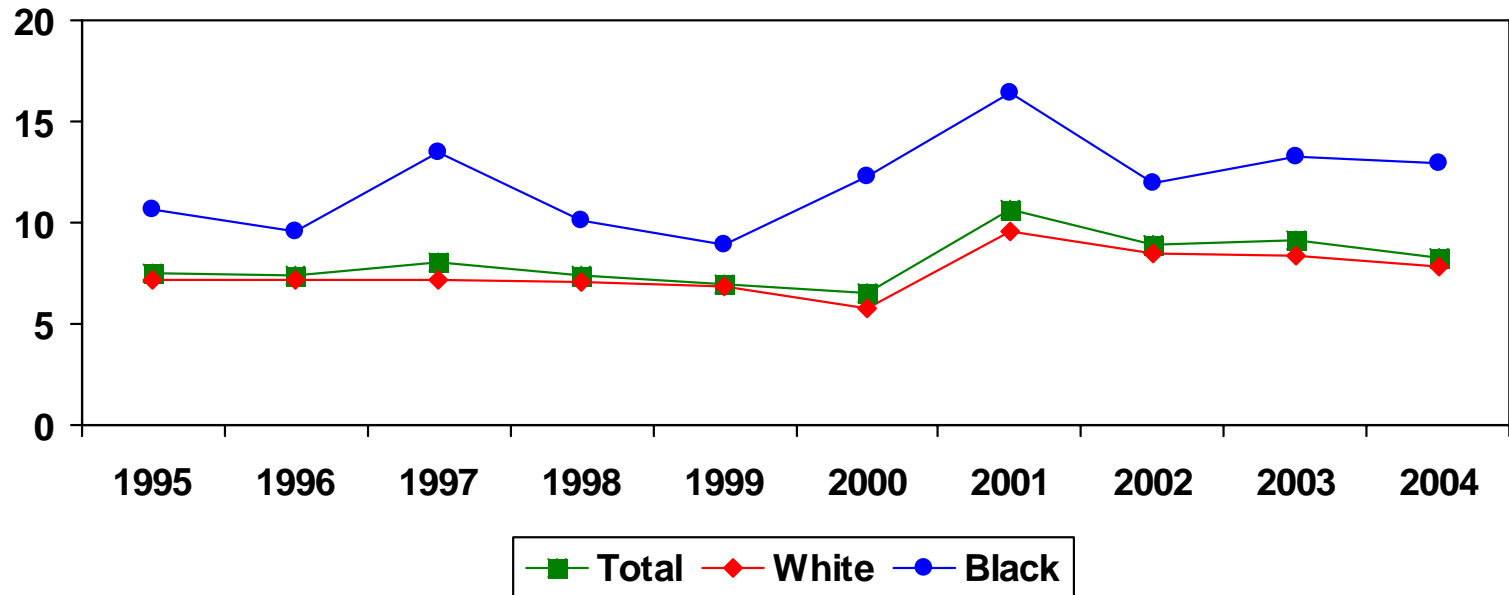
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	8.5	7.1	7.8	7.7	7.4	7.6	7.0	7.9	8.2	8.0
White	7.5	5.9	6.9	6.5	6.6	6.8	5.8	6.7	6.2	6.7
Black	13.9	13.8	12.8	13.1	12.1	11.6	13.1	12.4	16.5	14.5

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Percent of Low Birthweight Infants by Race

## Vanderburgh County Residents, 1995-2004

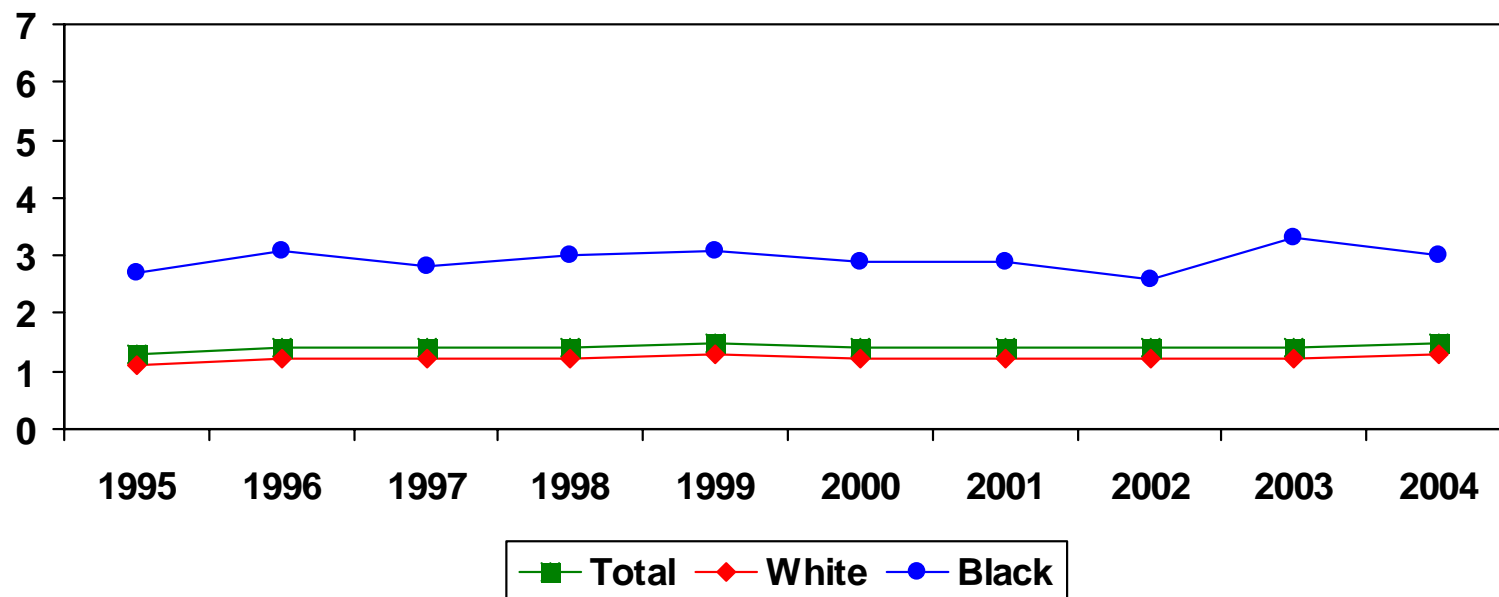


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.5	7.4	8.0	7.4	7.0	6.5	10.6	8.9	9.1	8.3
White	7.2	7.2	7.2	7.1	6.8	5.8	9.6	8.5	8.4	7.8
Black	10.6	9.6	13.5	10.1	8.9	12.3	16.4	12.0	13.3	12.9

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Very Low Birthweight Infants by Race

## Indiana Residents, 1995-2004

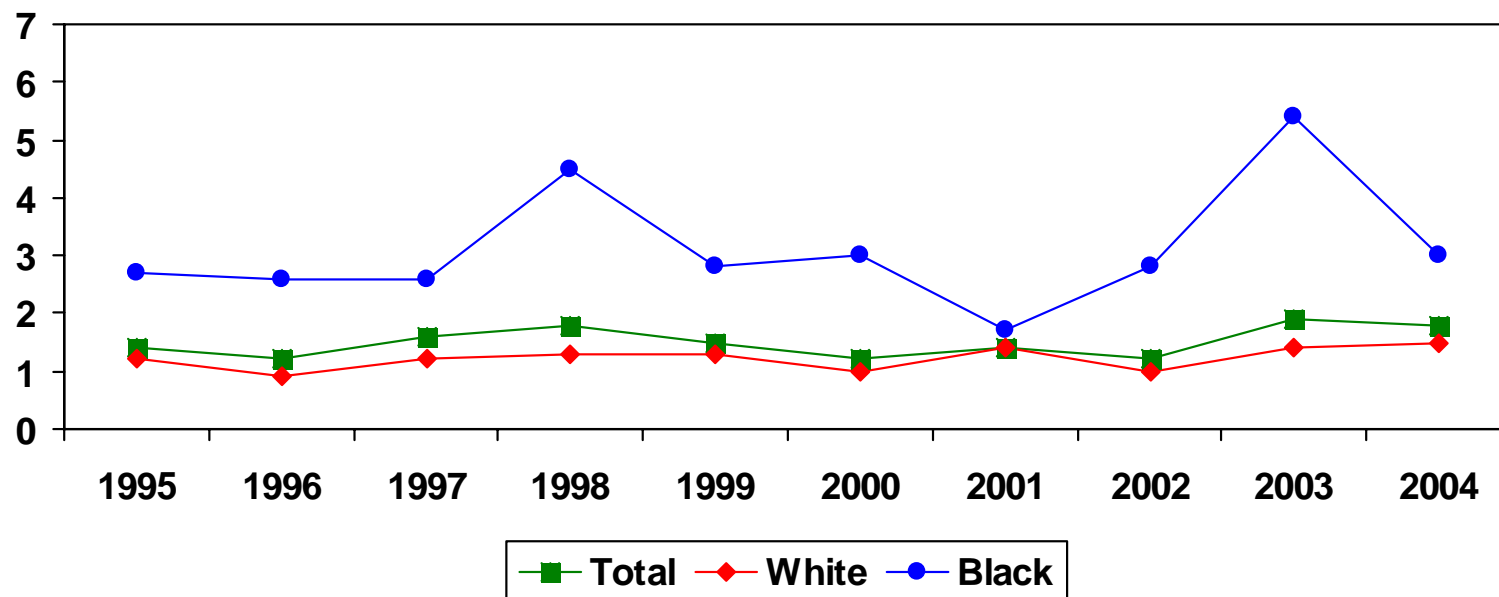


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.3	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.5
White	1.1	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.2	1.3
Black	2.7	3.1	2.8	3.0	3.1	2.9	2.9	2.6	3.3	3.0

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Very Low Birthweight Infants by Race

## Allen County Residents, 1995-2004



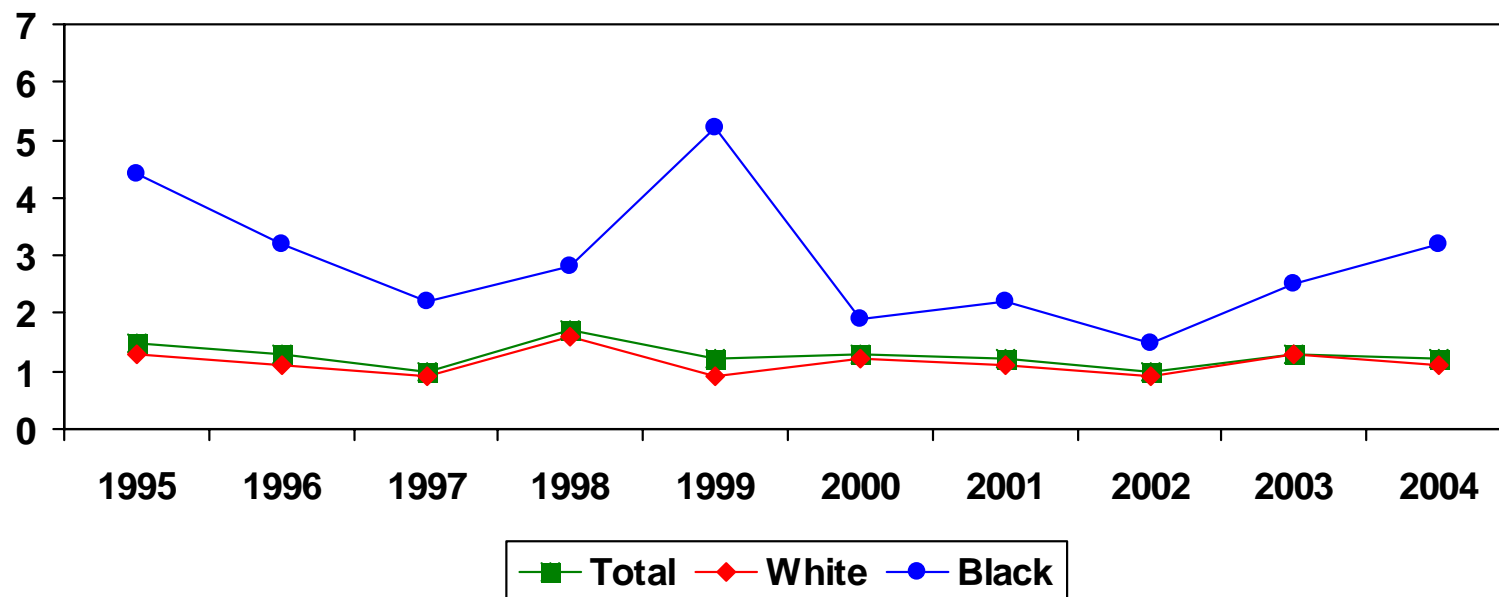
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.4	1.2	1.6	1.8	1.5	1.2	1.4	1.2	1.9	1.8
White	1.2	0.9	1.2	1.3	1.3	1.0	1.4	1.0	1.4	1.5
Black	2.7	2.6*	2.6	4.5	2.8	3.0	1.7*	2.8	5.4	3.0

\*Numerator is less than 20, and the percent is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Very Low Birthweight Infants by Race

## Elkhart County Residents, 1995-2004



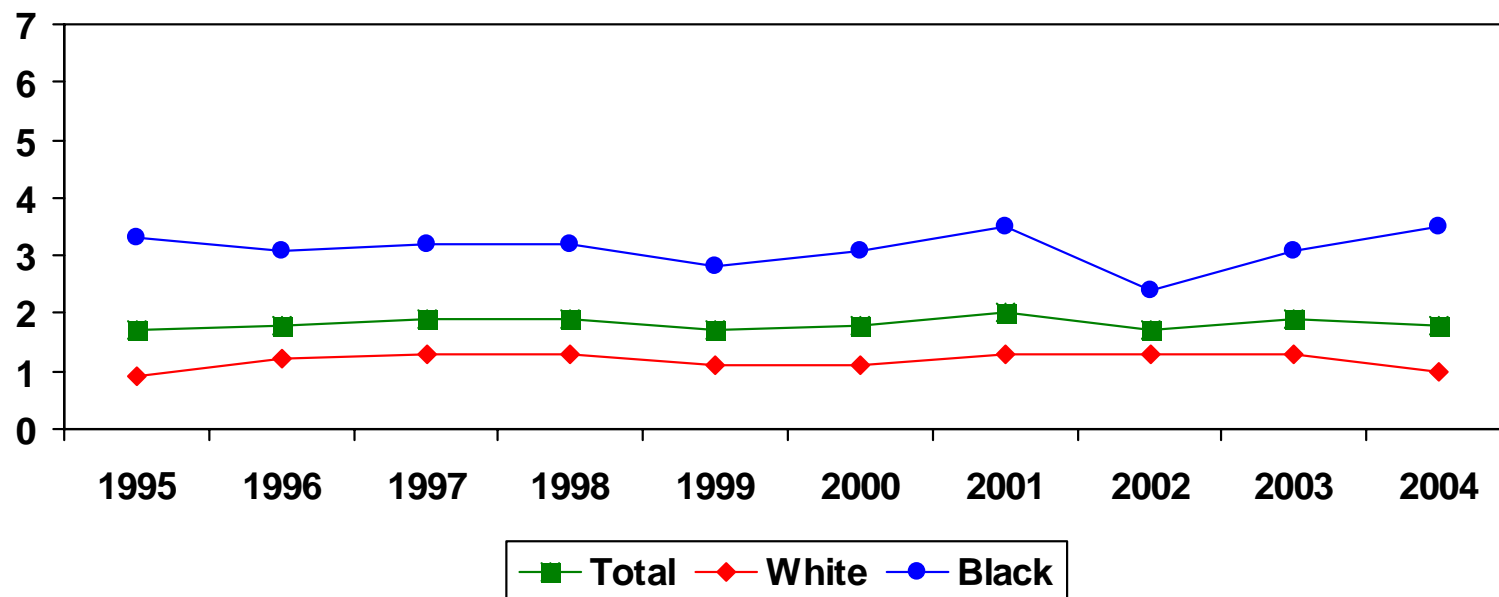
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.5	1.3	1.0	1.7	1.2	1.3	1.2	1.0	1.3	1.2
White	1.3	1.1	0.9	1.6	0.9	1.2	1.1	0.9	1.3	1.1
Black	4.4*	3.2*	2.2*	2.8*	5.2*	1.9*	2.2*	1.5*	2.5*	3.2*

\*Numerator is less than 20, and the percent is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Very Low Birthweight Infants by Race

## Lake County Residents, 1995-2004

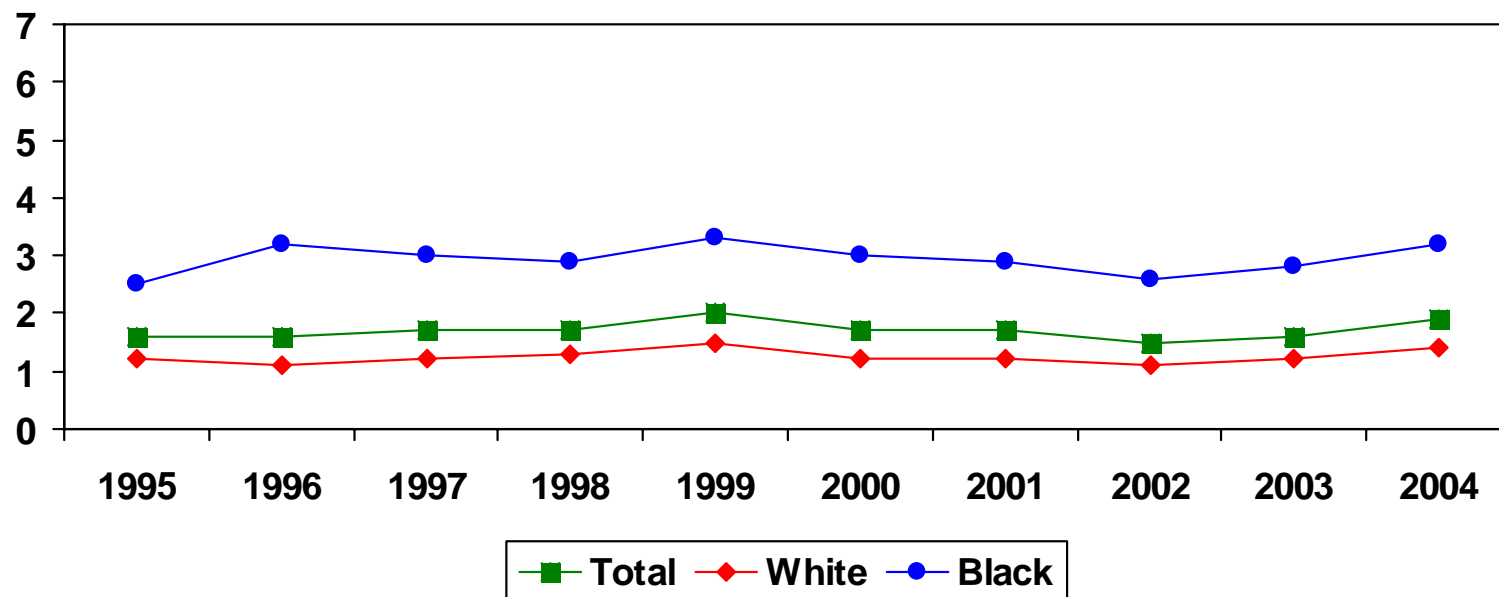


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.7	1.8	1.9	1.9	1.7	1.8	2.0	1.7	1.9	1.8
White	0.9	1.2	1.3	1.3	1.1	1.1	1.3	1.3	1.3	1.0
Black	3.3	3.1	3.2	3.2	2.8	3.1	3.5	2.4	3.1	3.5

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Very Low Birthweight Infants by Race

## Marion County Residents, 1995-2004

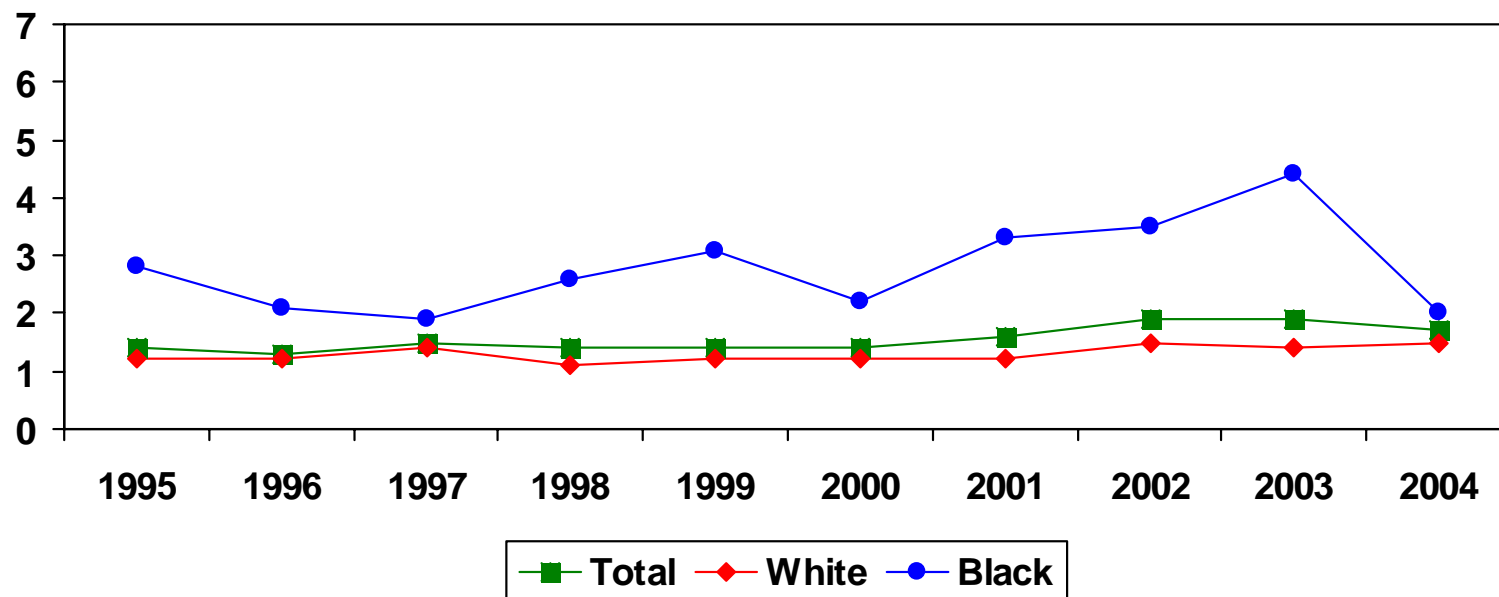


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.6	1.6	1.7	1.7	2.0	1.7	1.7	1.5	1.6	1.9
White	1.2	1.1	1.2	1.3	1.5	1.2	1.2	1.1	1.2	1.4
Black	2.5	3.2	3.0	2.9	3.3	3.0	2.9	2.6	2.8	3.2

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Very Low Birthweight Infants by Race

## St. Joseph County Residents, 1995-2004



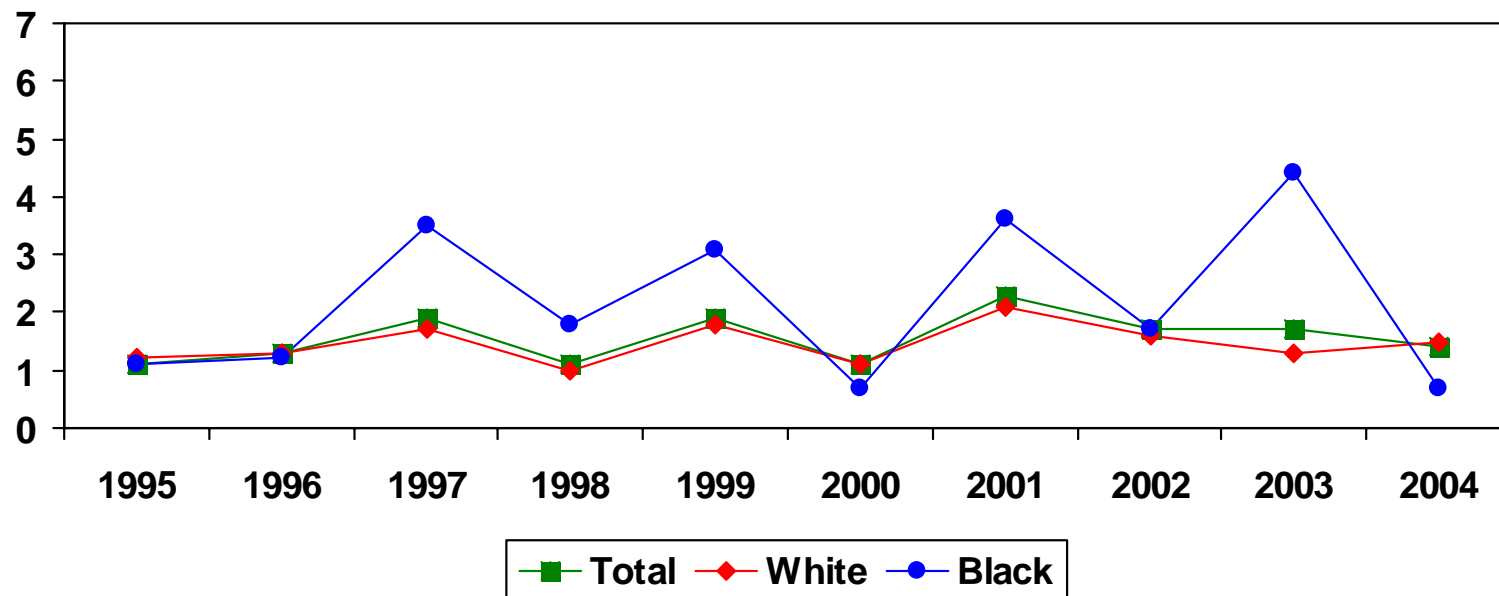
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.4	1.3	1.5	1.4	1.4	1.4	1.6	1.9	1.9	1.7
White	1.2	1.2	1.4	1.1	1.2	1.2	1.2	1.5	1.4	1.5
Black	2.8*	2.1*	1.9*	2.6*	3.1*	2.2*	3.3	3.5	4.4	2.0*

\*Numerator is less than 20, and the percent is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Very Low Birthweight Infants by Race

## Vanderburgh County Residents, 1995-2004



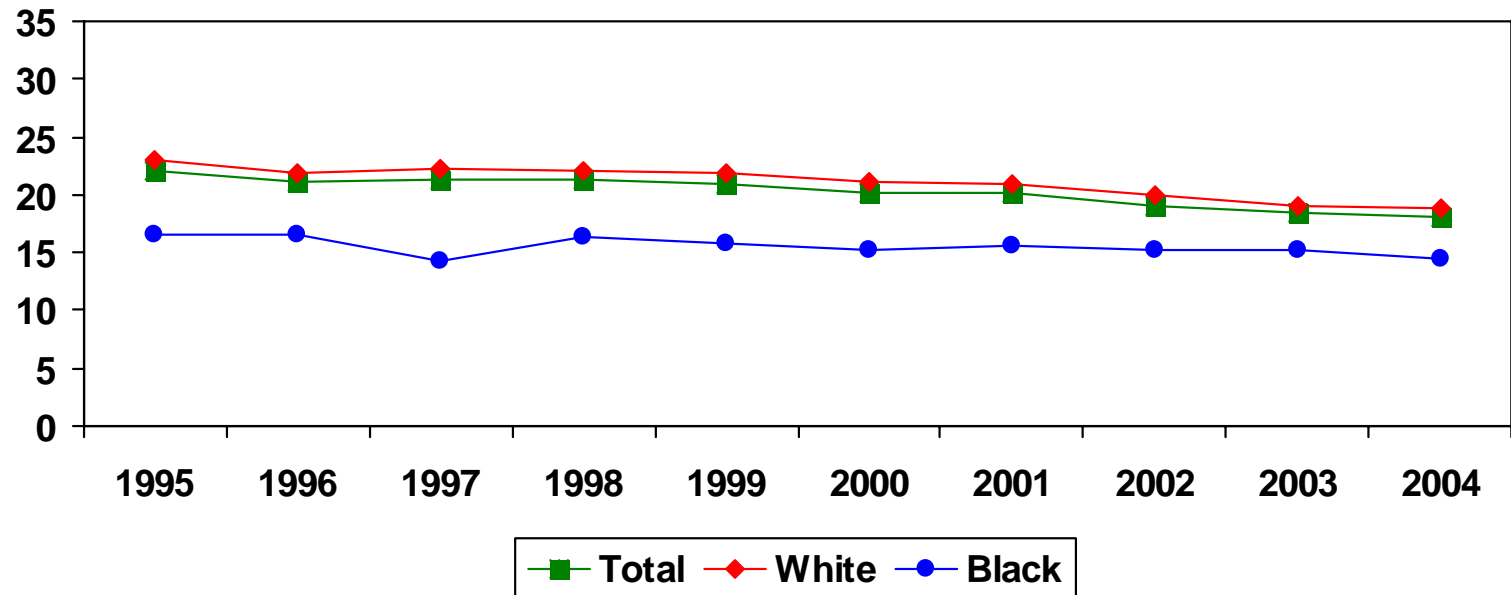
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	1.1	1.3	1.9	1.1	1.9	1.1	2.3	1.7	1.7	1.4
White	1.2	1.3	1.7	1.0*	1.8	1.1	2.1	1.6	1.3	1.5
Black	1.1*	1.2*	3.5*	1.8*	3.1*	0.7*	3.6*	1.7*	4.4*	0.7*

\*Numerator is less than 20, and the percent is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



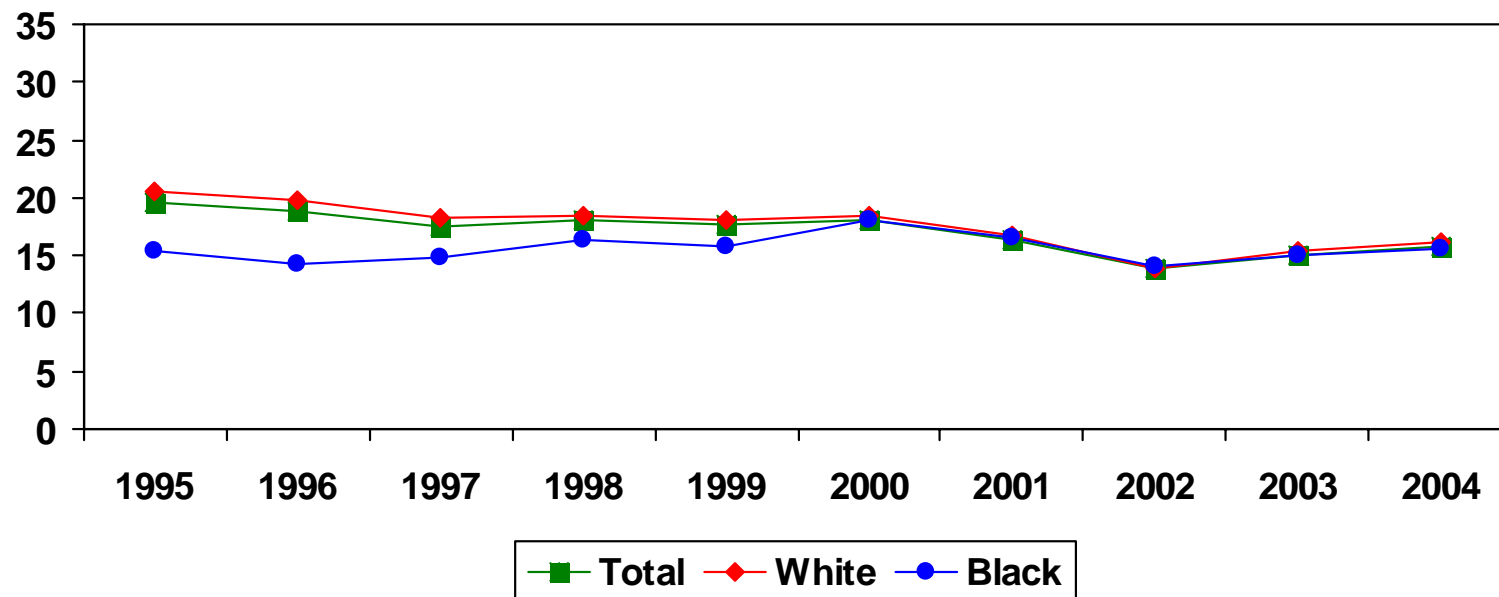
# Percent of Births to Mothers Who Smoked During Pregnancy, by Race Indiana Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	22.1	21.1	21.3	21.3	20.9	20.2	20.2	19.1	18.5	18.0
White	23.0	21.9	22.3	22.1	21.8	21.1	21.0	19.9	19.1	18.8
Black	16.5	16.5	14.3	16.3	15.8	15.2	15.6	15.2	15.2	14.4

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

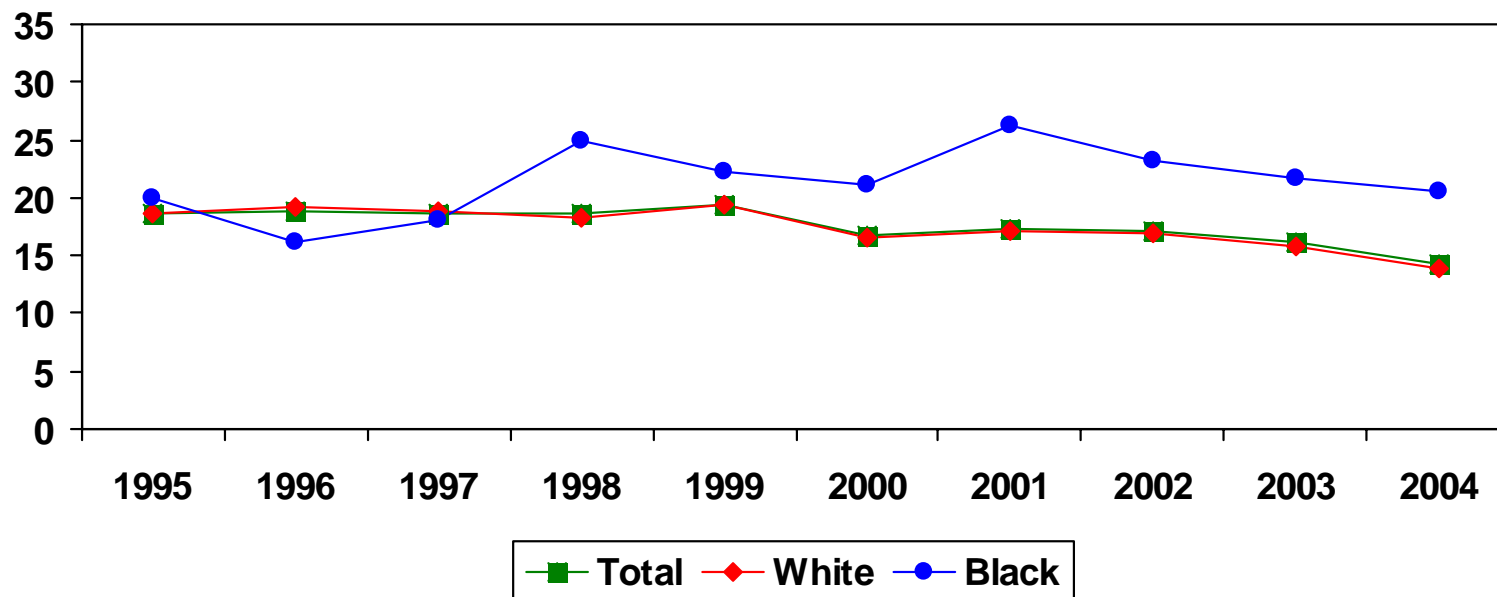
# Percent of Births to Mothers Who Smoked During Pregnancy, by Race Allen County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	19.5	18.8	17.5	18.0	17.6	18.1	16.4	13.8	15.1	15.7
White	20.6	19.8	18.3	18.5	18.1	18.5	16.7	13.9	15.5	16.2
Black	15.5	14.2	14.9	16.4	15.7	18.0	16.5	14.0	15.1	15.6

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

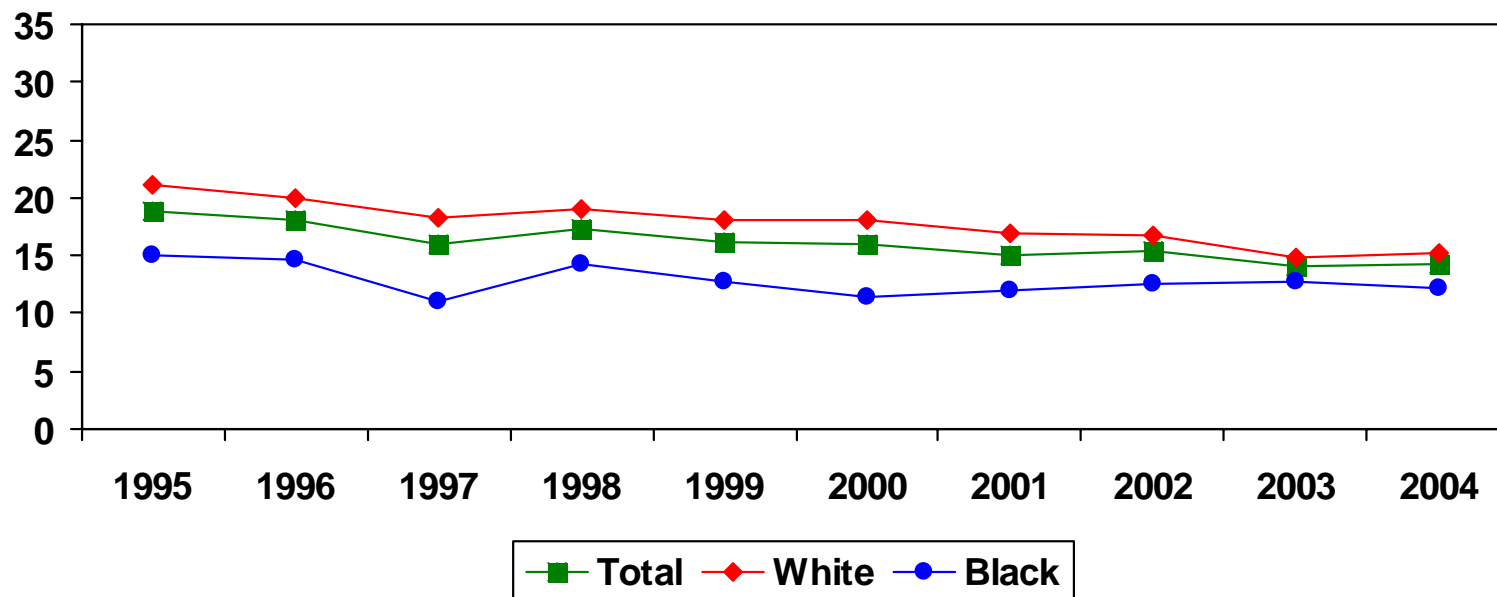
# Percent of Births to Mothers Who Smoked During Pregnancy, by Race Elkhart County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	18.7	18.8	18.6	18.6	19.4	16.7	17.4	17.2	16.1	14.2
White	18.7	19.2	18.9	18.3	19.4	16.6	17.2	16.9	15.8	13.9
Black	20.0	16.1	18.1	25.0	22.3	21.2	26.3	23.3	21.7	20.6

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

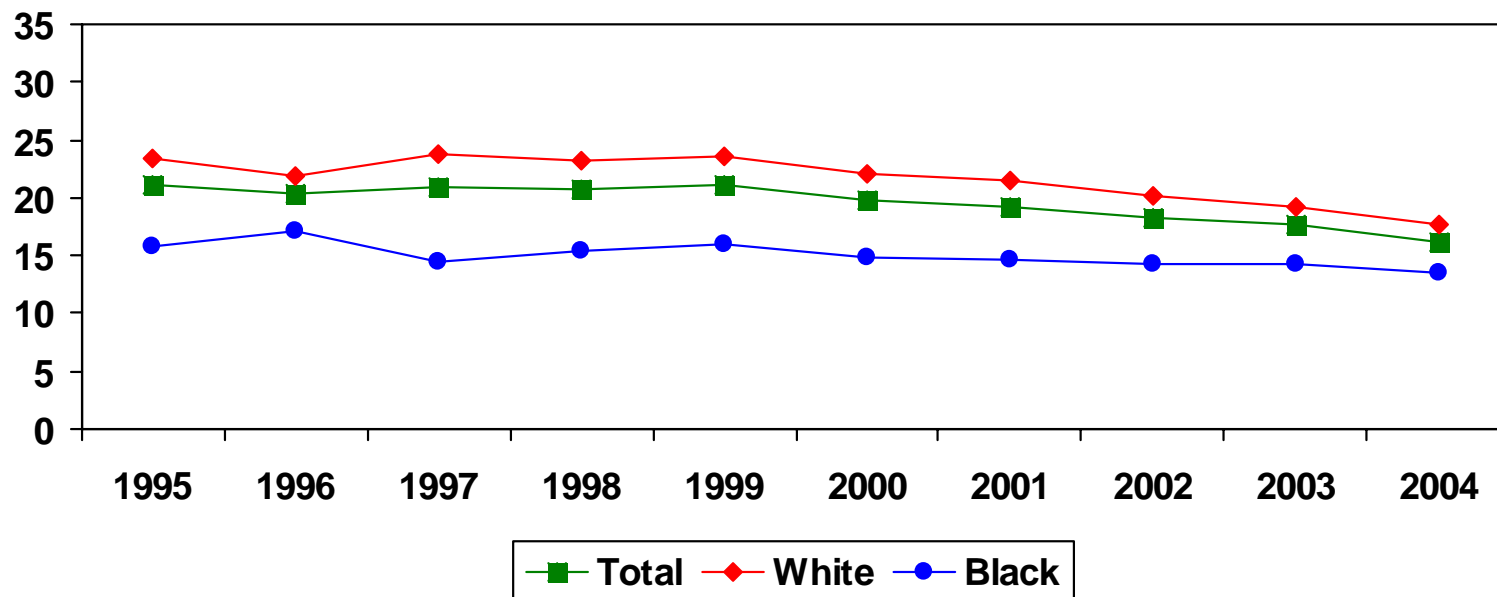
# Percent of Births to Mothers Who Smoked During Pregnancy, by Race Lake County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	18.9	18.1	15.9	17.3	16.2	15.9	15.1	15.4	14.1	14.2
White	21.1	20.0	18.2	19.0	18.1	18.1	16.9	16.8	14.9	15.3
Black	15.0	14.6	11.0	14.3	12.7	11.5	12.0	12.6	12.7	12.2

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

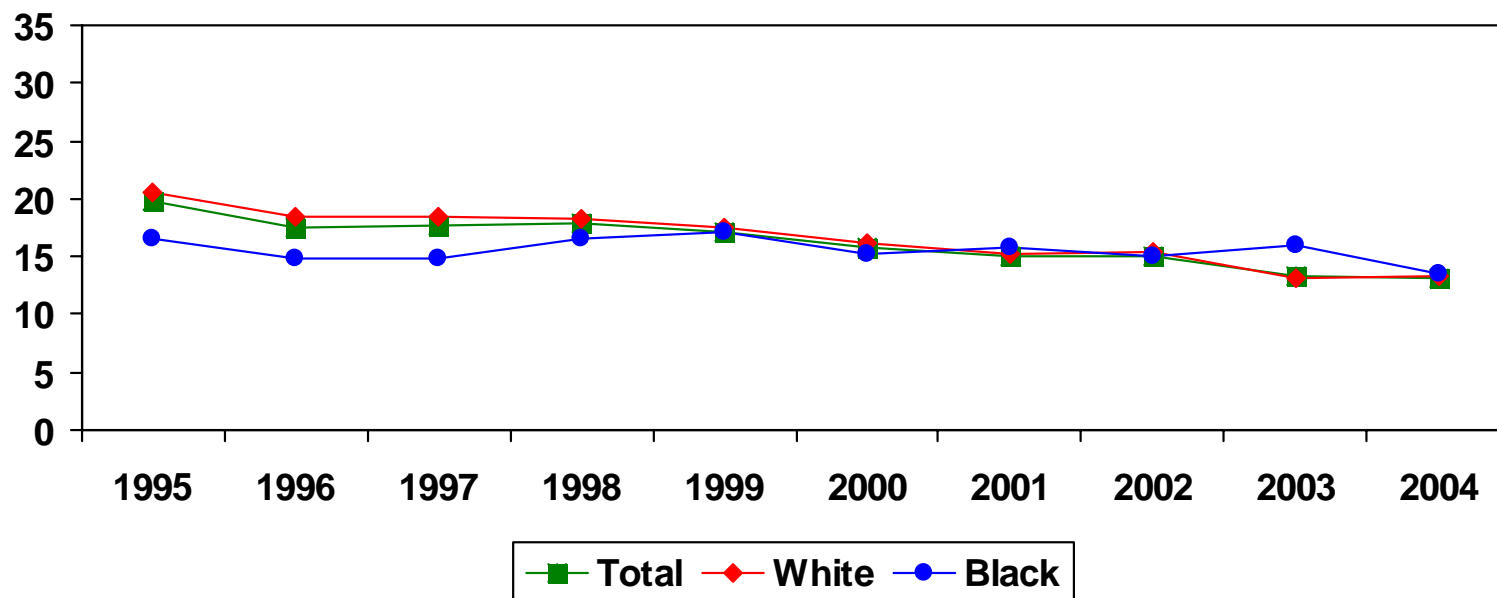
# Percent of Births to Mothers Who Smoked During Pregnancy, by Race Marion County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	21.2	20.3	21.0	20.8	21.1	19.8	19.3	18.2	17.6	16.2
White	23.4	21.8	23.7	23.2	23.5	22.0	21.4	20.1	19.2	17.7
Black	15.8	17.1	14.5	15.5	16.0	14.8	14.7	14.2	14.3	13.6

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

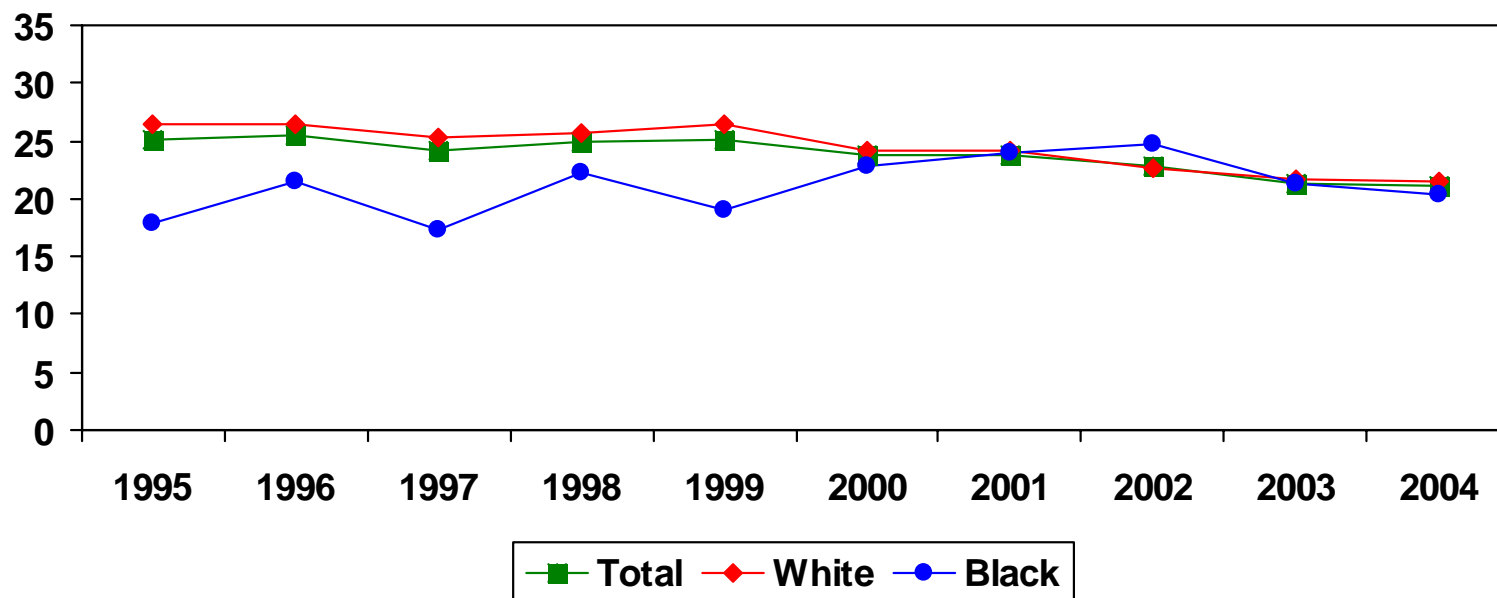
# Percent of Births to Mothers Who Smoked During Pregnancy, by Race St. Joseph County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	19.7	17.5	17.7	17.8	17.1	15.8	15.1	15.0	13.4	13.2
White	20.5	18.4	18.4	18.2	17.5	16.1	15.3	15.4	13.1	13.4
Black	16.5	14.8	14.8	16.5	17.2	15.3	15.7	15.1	15.9	13.5

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Births to Mothers Who Smoked During Pregnancy, by Race Vanderburgh County Residents, 1995-2004

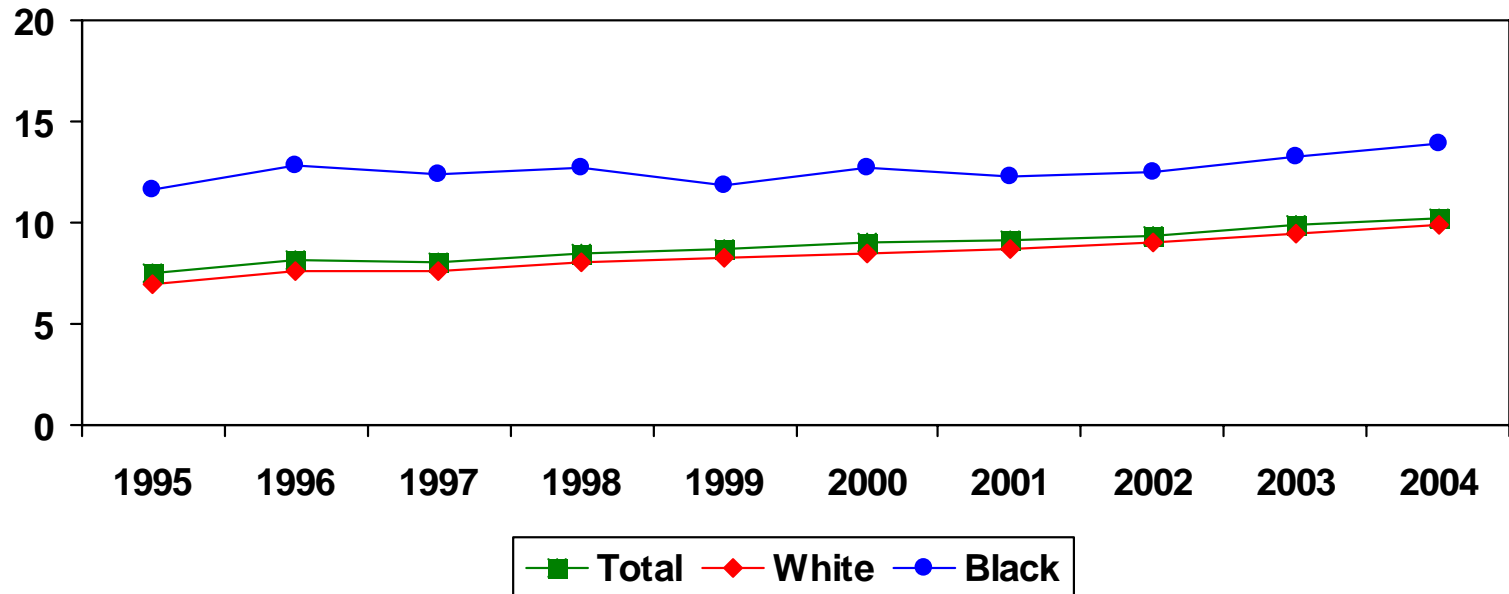


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	25.2	25.5	24.1	24.9	25.2	23.7	23.7	22.8	21.3	21.1
White	26.4	26.5	25.3	25.6	26.4	24.1	24.1	22.7	21.6	21.5
Black	17.8	21.5	17.3	22.3	19.0	22.9	23.9	24.7	21.3	20.3

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Preterm Births by Race

## Indiana Residents, 1995-2004



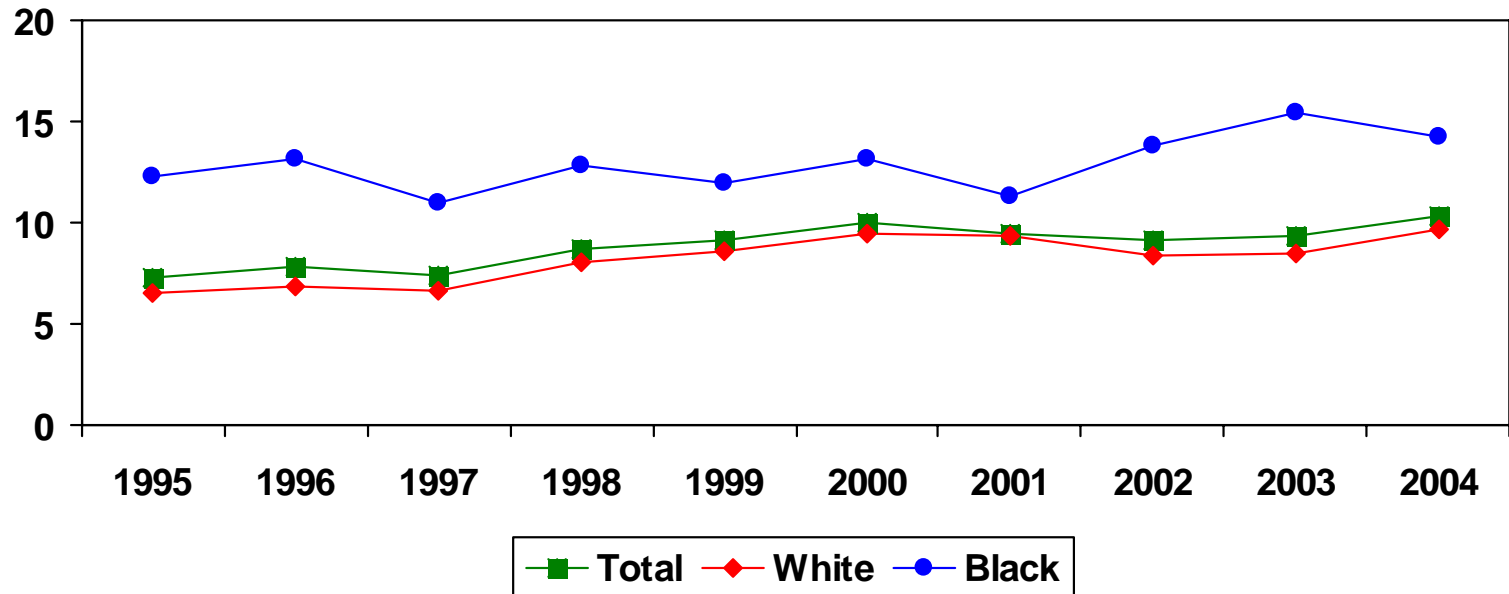
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.5	8.1	8.0	8.5	8.7	9.0	9.1	9.4	9.9	10.2
White	7.0	7.6	7.6	8.0	8.3	8.5	8.7	9.0	9.5	9.9
Black	11.6	12.8	12.4	12.7	11.8	12.7	12.3	12.5	13.3	13.9

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Percent of Preterm Births by Race

## Allen County Residents, 1995-2004

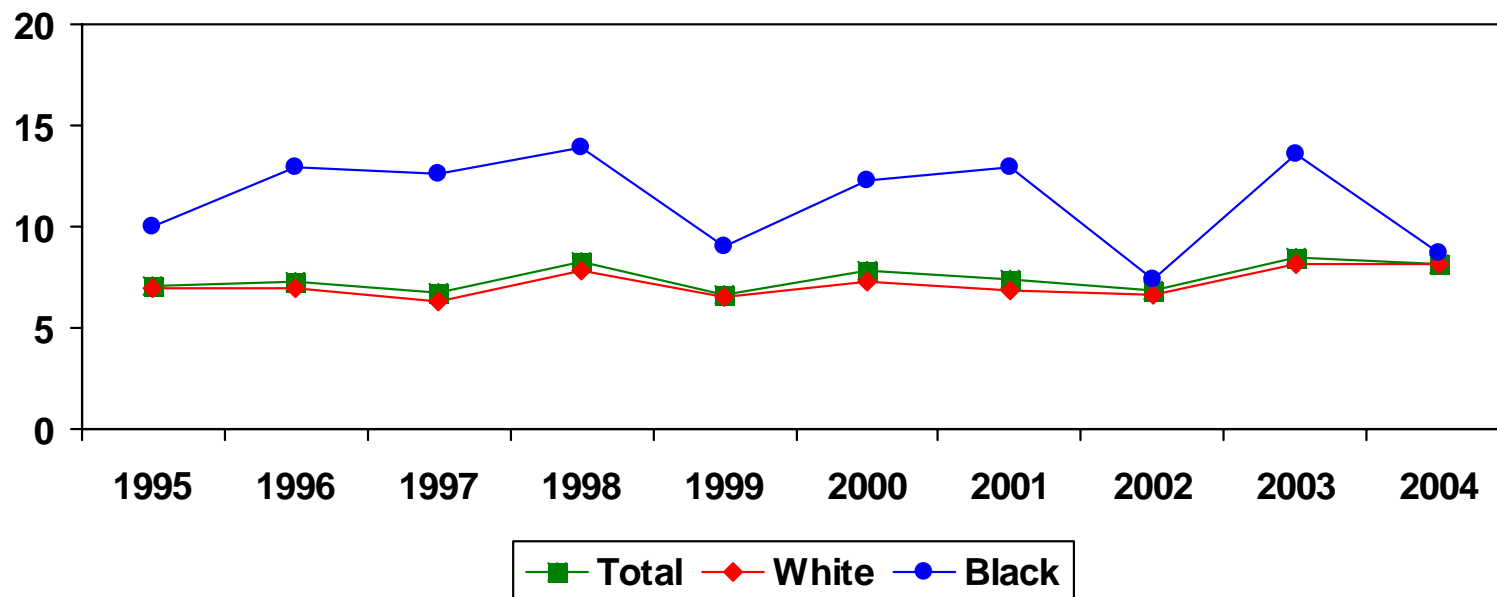


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.3	7.8	7.4	8.7	9.1	10.0	9.5	9.1	9.4	10.3
White	6.5	6.8	6.6	8.0	8.6	9.5	9.3	8.4	8.5	9.7
Black	12.3	13.1	11.0	12.8	12.0	13.1	11.3	13.8	15.4	14.2

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Preterm Births by Race

## Elkhart County Residents, 1995-2004



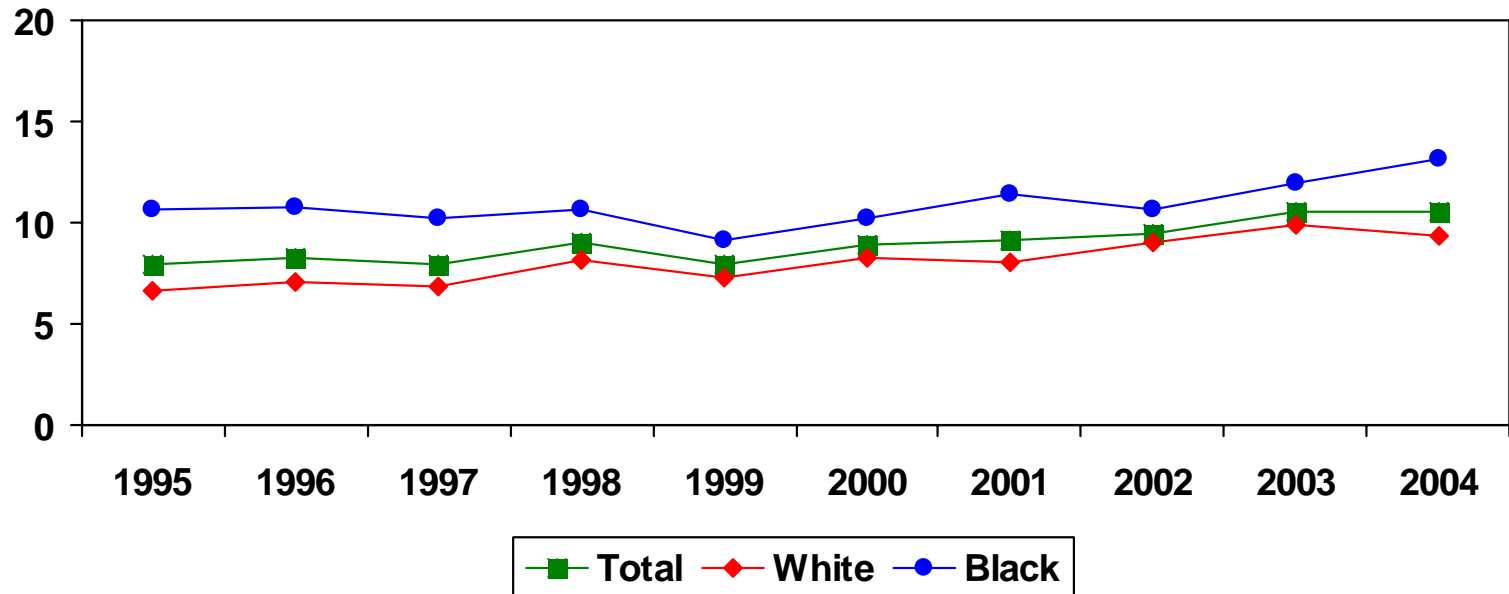
	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.1	7.3	6.7	8.3	6.6	7.8	7.4	6.8	8.5	8.1
White	7.0	7.0	6.3	7.8	6.5	7.3	6.8	6.6	8.2	8.1
Black	10.0*	12.9	12.6	13.9	9.0*	12.3	12.9	7.4*	13.6	8.7*

\*Numerator is less than 20, and the percent is unstable.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Preterm Births by Race

## Lake County Residents, 1995-2004

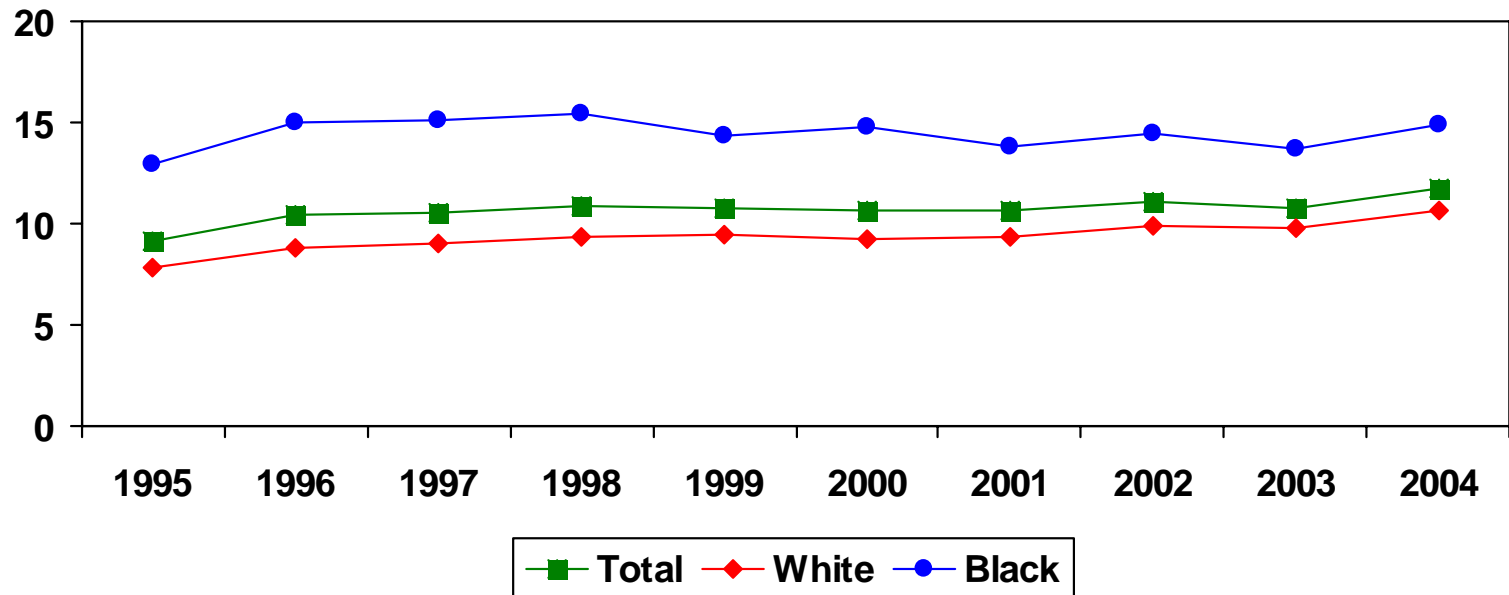


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.9	8.3	7.9	9.0	7.9	8.9	9.1	9.5	10.5	10.5
White	6.6	7.1	6.9	8.1	7.3	8.3	8.0	9.0	9.9	9.4
Black	10.6	10.8	10.2	10.7	9.1	10.2	11.4	10.6	12.0	13.1

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Preterm Births by Race

## Marion County Residents, 1995-2004

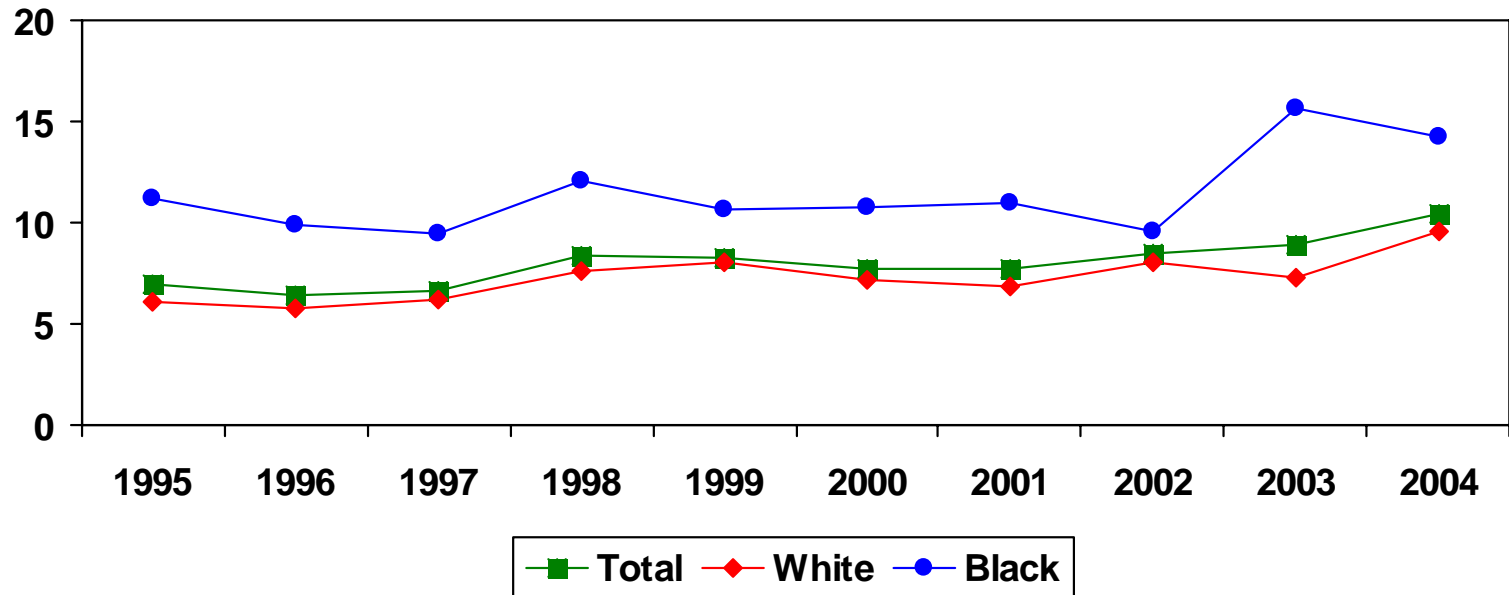


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	9.1	10.4	10.5	10.9	10.8	10.7	10.6	11.1	10.8	11.7
White	7.8	8.8	9.0	9.3	9.5	9.2	9.4	9.9	9.8	10.7
Black	12.9	15.0	15.1	15.4	14.3	14.8	13.8	14.5	13.7	14.9

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Preterm Births by Race

## St. Joseph County Residents, 1995-2004

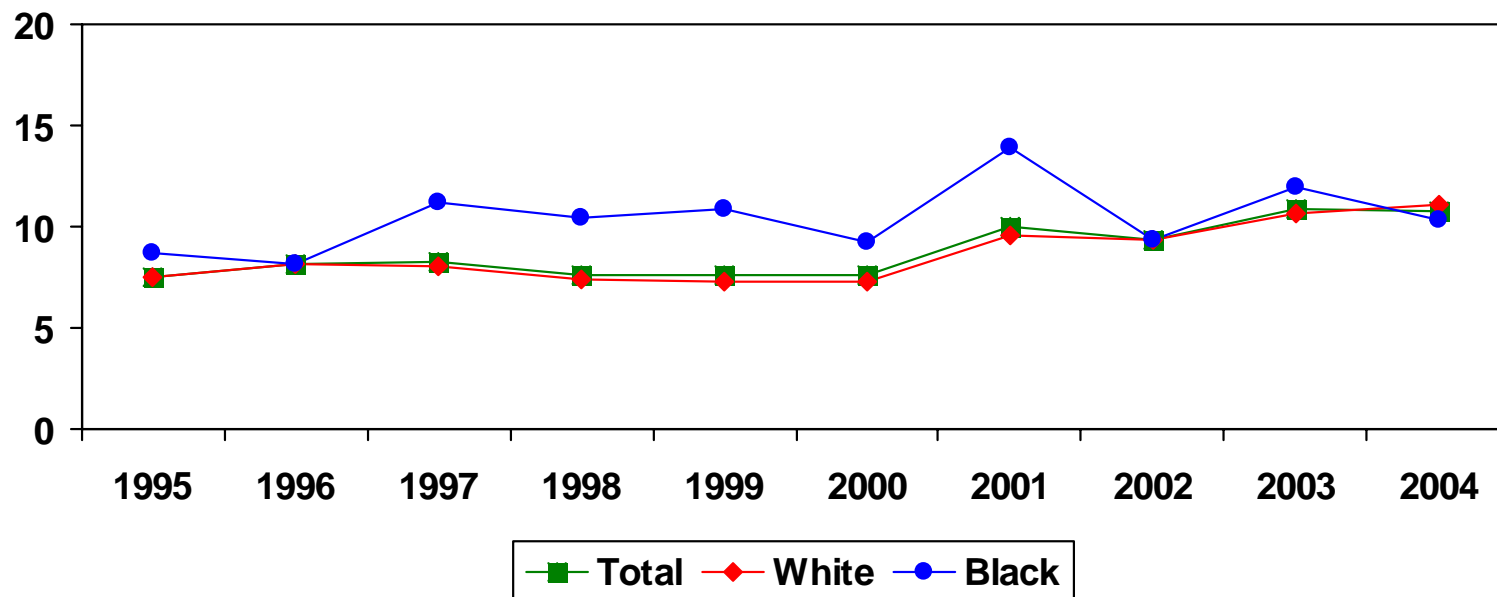


	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.0	6.4	6.6	8.4	8.3	7.7	7.7	8.5	8.9	10.4
White	6.1	5.8	6.2	7.6	8.0	7.2	6.9	8.0	7.3	9.6
Black	11.2	9.9	9.5	12.1	10.7	10.8	11.0	9.6	15.6	14.2

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Percent of Preterm Births by Race

## Vanderburgh County Residents, 1995-2004



	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Total	7.5	8.1	8.3	7.6	7.6	7.6	10.0	9.4	10.9	10.8
White	7.5	8.2	8.0	7.4	7.3	7.3	9.6	9.4	10.6	11.1
Black	8.7	8.1	11.2	10.4	10.9	9.2	13.9	9.3	12.0	10.3

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

**Live Births by County of Residence**  
**Indiana Residents, 1995-2004**  
**Total Population**

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	95-2004 Avg.
INDIANA	82,918	83,157	83,385	85,055	85,489	87,697	86,122	84,839	86,382	87,125	85,217
Adams	623	616	546	639	537	584	581	615	641	607	599
Allen	4,933	4,824	5,021	5,075	5,079	5,213	5,371	5,161	5,211	5,329	5,122
Bartholomew	1,024	1,100	994	1,063	1,076	1,073	999	960	1,004	1,047	1,034
Benton	132	196	150	123	125	125	107	115	118	135	133
Blackford	171	180	177	190	199	146	179	154	163	151	171
Boone	544	581	582	578	614	627	624	645	699	652	615
Brown	129	118	119	145	170	146	158	145	157	115	140
Carroll	295	212	254	264	261	227	216	241	237	250	246
Cass	490	514	568	569	575	592	574	542	548	570	554
Clark	1,198	1,327	1,245	1,295	1,323	1,348	1,311	1,273	1,315	1,315	1,295
Clay	335	334	336	342	343	314	349	373	358	337	342
Clinton	462	516	451	495	497	548	521	503	510	494	500
Crawford	110	117	117	122	140	157	135	130	135	140	130
Daviess	444	441	417	412	463	476	470	475	502	483	458
Dearborn	590	557	639	647	436	673	527	532	629	641	587
Decatur	360	317	380	391	400	377	379	376	387	362	373
DeKalb	544	581	571	634	556	560	616	591	566	554	577
Delaware	1,408	1,388	1,419	1,482	1,423	1,434	1,371	1,300	1,339	1,310	1,387
Dubois	597	527	561	535	558	542	515	565	501	550	545
Elkhart	2,736	2,720	2,917	2,996	3,134	3,315	3,125	3,005	3,194	3,252	3,039
Fayette	335	357	372	342	285	340	302	309	332	304	328
Floyd	933	930	899	853	895	879	852	848	826	870	879
Fountain	243	227	231	255	240	218	238	211	217	213	229
Franklin	247	278	234	279	183	311	232	254	264	328	261
Fulton	277	251	293	264	281	272	252	234	263	245	263
Gibson	411	382	382	426	402	360	419	387	430	416	402
Grant	984	946	853	942	866	948	822	869	799	803	883
Greene	414	348	372	374	364	413	394	425	420	393	392
Hamilton	2,316	2,389	2,421	2,754	2,980	3,211	3,242	3,457	3,637	3,649	3,006
Hancock	687	690	714	725	703	722	725	741	844	824	738

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

**Live Births by County of Residence**  
**Indiana Residents, 1995-2004**  
**Total Population**

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	95-2004 Avg.
INDIANA	82,918	83,157	83,385	85,055	85,489	87,697	86,122	84,839	86,382	87,125	85,217
Harrison	389	379	387	459	447	442	457	436	438	435	427
Hendricks	1,067	1,151	1,212	1,187	1,262	1,429	1,541	1,459	1,505	1,552	1,337
Henry	611	626	581	610	609	559	590	558	559	540	584
Howard	1,207	1,217	1,192	1,159	1,249	1,172	1,218	1,119	1,217	1,143	1,189
Huntington	522	501	496	506	526	519	438	488	461	499	496
Jackson	576	569	621	589	560	626	638	629	591	589	599
Jasper	365	343	362	389	427	390	353	405	431	396	386
Jay	310	309	344	331	331	310	305	282	332	287	314
Jefferson	398	430	386	384	364	367	383	332	365	382	379
Jennings	374	392	410	419	423	394	400	389	359	415	398
Johnson	1,456	1,415	1,448	1,597	1,641	1,673	1,649	1,622	1,705	1,765	1,597
Knox	483	496	440	475	473	430	453	393	474	462	458
Kosciusko	1,040	1,070	1,141	1,081	1,134	1,199	1,133	1,032	1,059	1,087	1,098
LaGrange	661	691	673	704	756	741	697	717	720	703	706
Lake	7,328	7,126	6,903	7,134	7,073	7,040	6,936	6,824	6,926	6,975	7,027
LaPorte	1,325	1,395	1,495	1,405	1,453	1,457	1,401	1,360	1,309	1,325	1,393
Lawrence	562	605	611	585	571	618	565	560	547	537	576
Madison	1,660	1,693	1,698	1,741	1,775	1,644	1,710	1,603	1,596	1,636	1,676
Marion	13,919	13,948	13,884	13,917	14,183	14,608	14,373	14,540	14,701	14,868	14,294
Marshall	606	625	703	686	680	688	720	639	701	655	670
Martin	149	171	158	145	155	142	125	145	119	114	142
Miami	424	430	460	443	431	480	479	433	451	438	447
Monroe	1,162	1,190	1,269	1,264	1,261	1,246	1,280	1,239	1,229	1,273	1,241
Montgomery	493	518	507	468	534	478	505	456	466	486	491
Morgan	909	859	899	927	985	958	847	927	873	873	906
Newton	151	178	162	153	208	172	163	156	155	141	164
Noble	692	666	708	719	725	744	717	669	678	739	706
Ohio	57	58	57	59	53	67	69	61	62	64	61
Orange	236	286	246	235	245	274	274	245	239	237	252
Owen	238	232	250	221	263	271	262	246	232	262	248
Parke	186	158	178	183	170	202	164	171	205	157	177

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



**Live Births by County of Residence**  
**Indiana Residents, 1995-2004**  
**Total Population**

	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	95-2004 Avg.
INDIANA	82,918	83,157	83,385	85,055	85,489	87,697	86,122	84,839	86,382	87,125	85,217
Perry	206	193	192	207	203	238	223	201	233	217	211
Pike	125	156	150	164	168	148	157	141	135	167	151
Porter	1,724	1,667	1,726	1,736	1,815	1,830	1,846	1,797	1,873	1,827	1,784
Posey	327	309	268	283	289	287	269	269	242	292	284
Pulaski	174	162	155	185	194	174	144	159	164	172	168
Putnam	459	419	411	448	430	423	405	406	404	407	421
Randolph	369	349	350	361	355	342	337	305	321	318	341
Ripley	420	379	418	405	334	433	381	374	396	387	393
Rush	264	263	255	245	238	245	259	258	217	196	244
St. Joseph	3,761	3,784	3,767	3,983	3,873	3,964	3,856	3,750	3,706	3,843	3,829
Scott	301	347	355	290	306	348	303	318	293	288	315
Shelby	550	624	582	560	606	627	597	547	537	582	581
Spencer	257	290	288	265	237	268	259	212	232	235	254
Starke	340	281	275	306	297	315	325	305	280	288	301
Steuben	415	434	439	435	403	424	464	421	419	412	427
Sullivan	247	262	239	229	256	254	265	258	266	214	249
Switzerland	100	83	96	112	103	110	102	102	126	110	104
Tippecanoe	1,740	1,737	1,804	1,770	1,838	1,931	1,917	1,941	2,012	2,073	1,876
Tipton	186	223	179	202	177	193	188	219	200	215	198
Union	96	98	91	97	55	112	66	77	74	101	87
Vanderburgh	2,201	2,245	2,163	2,273	2,281	2,336	2,292	2,298	2,356	2,351	2,280
Vermillion	221	233	224	206	213	205	191	205	200	207	211
Vigo	1,412	1,409	1,358	1,406	1,300	1,384	1,275	1,283	1,297	1,309	1,343
Wabash	445	412	413	388	444	431	391	418	373	378	409
Warren	85	86	96	101	81	100	94	101	94	84	92
Warrick	621	640	659	618	599	691	676	616	641	703	646
Washington	335	324	337	350	324	357	363	344	350	360	344
Wayne	903	918	858	918	906	896	894	837	857	943	893
Wells	360	343	383	344	317	372	321	322	381	353	350
White	336	353	329	357	354	350	386	355	325	323	347
Whitley	409	443	409	425	418	418	425	429	427	396	420

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Infant Mortality Rates, All Races, Indiana Residents, 1995-2004

(Counties with 20 or more infant deaths for the 10 combined years)

RANK	COUNTY	RATE*	RANK	COUNTY	RATE*
1	Randolph	10.9	36	Knox	7.4
2	Perry	10.4	36	Monroe	7.4
3	Madison	10.3	36	Clinton	7.4
3	Fulton	10.3	39	DeKalb	7.3
5	Daviess	9.8	39	Bartholomew	7.3
6	Lake	9.7	41	Allen	7.2
6	Delaware	9.7	42	Clark	7.0
8	Marion	9.5	42	Clay	7.0
9	Greene	9.4	42	Howard	7.0
9	Wayne	9.4	42	Starke	7.0
11	Grant	9.2	46	Boone	6.8
11	Fountain	9.2	46	Noble	6.8
13	Wabash	9.0	46	LaGrange	6.8
14	Decatur	8.8	49	Morgan	6.7
14	Posey	8.8	49	Scott	6.7
16	Vigo	8.6	51	White	6.3
16	Shelby	8.6	51	Jefferson	6.3
16	Vanderburgh	8.6	51	Miami	6.3
16	Montgomery	8.6	51	Hamilton	6.3
20	Sullivan	8.4	55	Gibson	6.2
21	Jay	8.3	55	Jackson	6.2
22	Henry	8.2	57	Dubois	6.1
23	Owen	8.1	58	Johnson	5.9
24	Adams	8.0	58	Hendricks	5.9
24	St. Joseph	8.0	60	Steuben	5.6
26	LaPorte	7.9	60	Harrison	5.6
27	Cass	7.8	62	Whitley	5.5
28	Tippecanoe	7.7	62	Putnam	5.5
28	Franklin	7.7	64	Huntington	5.4
30	Lawrence	7.6	64	Jasper	5.4
30	Fayette	7.6	66	Dearborn	5.1
30	Porter	7.6	66	Warrick	5.1
30	Kosciusko	7.6	66	Marshall	5.1
34	Jennings	7.5	69	Floyd	4.8
34	Elkhart	7.5	70	Hancock	4.3
				Indiana	7.9

\*Rate per 1,000 live births.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

(Counties with 20 or more infant deaths for the 10 combined years)

\*Rate per 1,000 live births.  
Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Infant Mortality Rates, Black, Indiana Residents, 1995-2004

(Counties with 20 or more infant deaths for the 10 combined years)

RANK	COUNTY	RATE*
1	Madison	27.4
2	Delaware	26.8
3	Elkhart	18.6
4	LaPorte	17.9
5	Lake	16.2
5	St. Joseph	16.2
7	Marion	15.7
8	Allen	15.2
9	Vanderburgh	12.2
	Indiana	16.3

\*Rate per 1,000 live births.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Neonatal Mortality Rates, All Races, Indiana Residents, 1995-2004

(Counties with 20 or more neonatal deaths for the 10 combined years)

RANK	COUNTY	RATE*	RANK	COUNTY	RATE*
1	Greene	6.9	23	Clinton	5.0
2	Delaware	6.6	25	Lawrence	4.9
3	Madison	6.5	26	Allen	4.8
3	Marion	6.5	26	Porter	4.8
3	Wayne	6.5	26	Knox	4.8
6	Lake	6.4	29	Howard	4.7
7	Daviess	6.3	29	LaGrange	4.7
8	Randolph	6.2	29	Elkhart	4.7
9	Grant	5.9	32	Kosciusko	4.6
10	Montgomery	5.7	32	Morgan	4.6
10	Adams	5.7	32	LaPorte	4.6
12	Henry	5.6	32	Hendricks	4.6
12	Tippecanoe	5.6	36	Bartholomew	4.5
14	Shelby	5.5	37	Noble	4.4
15	Vanderburgh	5.4	38	Clark	4.0
15	Decatur	5.4	39	Warrick	3.9
17	St. Joseph	5.3	40	Johnson	3.7
18	Cass	5.2	40	Dubois	3.7
18	Boone	5.2	42	DeKalb	3.5
18	Hamilton	5.2	43	Dearborn	3.4
21	Vigo	5.1	44	Marshall	3.0
21	Monroe	5.1	45	Hancock	2.7
23	Jennings	5.0			
				Indiana	5.2

\*Rate per 1,000 live births.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Neonatal Mortality Rates, White, Indiana Residents, 1995-2004

(Counties with 20 or more neonatal deaths for the 10 combined years)

RANK COUNTY	RATE*	RANK COUNTY	RATE*
1 Greene	6.7	21 Lawrence	4.8
2 Daviess	6.4	23 Morgan	4.7
3 Randolph	6.2	23 Lake	4.7
3 Wayne	6.2	25 Kosciusko	4.6
5 Madison	6.0	25 Boone	4.6
6 Henry	5.7	25 Bartholomew	4.6
6 Adams	5.7	25 Hendricks	4.6
8 Montgomery	5.6	29 LaGrange	4.5
9 Tippecanoe	5.5	29 Howard	4.5
9 Grant	5.5	31 Noble	4.4
11 Decatur	5.4	31 Vigo	4.4
12 Shelby	5.3	33 St. Joseph	4.3
13 Vanderburgh	5.1	34 Elkhart	4.1
13 Delaware	5.1	35 Allen	3.8
15 Clinton	5.0	36 Johnson	3.7
15 Monroe	5.0	36 LaPorte	3.7
15 Marion	5.0	38 Clark	3.6
15 Cass	5.0	39 DeKalb	3.5
19 Knox	4.9	40 Warrick	3.2
19 Hamilton	4.9	41 Marshall	3.0
21 Porter	4.8		
		Indiana	4.5

\*Rate per 1,000 live births.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Neonatal Mortality Rates, Black, Indiana Residents, 1995-2004

(Counties with 20 or more neonatal deaths for the 10 combined years)

RANK	COUNTY	RATE*
1	Delaware	18.6
2	Elkhart	11.3
3	LaPorte	10.8
4	Marion	10.6
5	Lake	10.3
6	Allen	10.2
7	St. Joseph	9.6
	Indiana	10.4

\*Rate per 1,000 live births.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Postneonatal Mortality Rates, All Races, Indiana Residents, 1995-2004

(Counties with 20 or more postneonatal deaths for the 10 combined years)

RANK	COUNTY	RATE*
1	DeKalb	3.8
1	Madison	3.8
3	Vigo	3.5
4	Lake	3.3
4	LaPorte	3.3
4	Grant	3.3
7	Vanderburgh	3.2
7	Delaware	3.2
9	Marion	3.0
9	Clark	3.0
11	Kosciusko	2.9
11	Wayne	2.9
13	Elkhart	2.8
13	Porter	2.8
15	Bartholomew	2.7
15	St. Joseph	2.7
17	Floyd	2.6
18	Allen	2.4
19	Monroe	2.3
19	Howard	2.3
19	Johnson	2.3
22	Tippecanoe	2.1
23	Hamilton	1.1
	Indiana	2.7

\*Rate per 1,000 live births.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



# Postneonatal Mortality Rates, White, Indiana Residents, 1995-2004

(Counties with 20 or more postneonatal deaths for the 10 combined years)

RANK	COUNTY	RATE*
1	DeKalb	3.9
2	Vigo	3.3
3	Vanderburgh	3.0
4	Grant	2.8
4	Clark	2.8
4	Kosciusko	2.8
7	Porter	2.7
7	LaPorte	2.7
9	Bartholomew	2.5
9	Madison	2.5
9	Delaware	2.5
12	Elkhart	2.4
13	Monroe	2.3
13	Marion	2.3
15	Tippecanoe	2.2
15	Johnson	2.2
17	Lake	2.0
18	St. Joseph	1.9
19	Allen	1.8
20	Hamilton	1.2
	Indiana	2.3

\*Rate per 1,000 live births.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Postneonatal Mortality Rates, Black, Indiana Residents, 1995-2004

(Counties with 20 or more postneonatal deaths for the 10 combined years)

RANK COUNTY	RATE*
1 Madison	15.3
2 St. Joseph	6.6
3 Lake	6.0
4 Marion	5.1
5 Allen	5.0
Indiana	5.9

\*Rate per 1,000 live births.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Prenatal Care Began in First Trimester, All Races, Indiana Residents, 1995-2004

RANK COUNTY	PERCENT*	RANK COUNTY	PERCENT*
1 LaGrange	48.2	47 White	82.5
2 Adams	64.2	47 Randolph	82.5
3 Elkhart	66.3	49 Crawford	82.6
4 Daviess	69.3	50 Rush	82.8
5 Clinton	73.2	51 Vigo	82.9
6 Noble	74.0	51 Ripley	82.9
7 LaPorte	74.7	53 Madison	83.0
8 Parke	75.8	53 Clay	83.0
9 Jay	76.1	55 Jasper	83.1
9 Cass	76.1	56 Fayette	83.2
11 Grant	76.7	56 Perry	83.2
12 Scott	77.5	58 Floyd	83.6
13 Switzerland	78.0	59 Brown	83.7
14 Marion	78.2	60 Union	83.8
14 Steuben	78.2	61 Morgan	84.0
16 Clark	78.3	62 Knox	84.5
16 Kosciusko	78.3	62 Putnam	84.5
18 Lake	78.5	64 Shelby	84.6
19 Owen	78.6	64 Sullivan	84.6
19 Wayne	78.6	66 Warren	84.7
21 St. Joseph	79.0	67 Benton	85.0
22 Howard	79.1	68 Carroll	85.1
23 Decatur	79.2	69 Tippecanoe	85.4
24 Jennings	79.3	70 Franklin	85.7
25 Washington	79.7	71 Tipton	86.0
25 Jackson	79.7	71 Vanderburgh	86.0
27 Martin	79.8	73 Huntington	86.2
28 Miami	80.0	74 Blackford	86.3
29 Marshall	80.2	75 Gibson	86.4
30 Jefferson	80.3	76 Harrison	86.5
31 DeKalb	80.5	77 Delaware	86.6
31 Orange	80.5	77 Whitley	86.6
31 Wabash	80.5	79 Boone	87.1
34 Newton	80.6	79 Pike	87.1
35 Vermillion	80.9	81 Wells	87.3
36 Greene	81.0	82 Spencer	87.5
37 Porter	81.1	83 Posey	87.8
38 Fulton	81.2	84 Henry	88.4
38 Monroe	81.2	85 Ohio	88.9
40 Fountain	81.4	86 Johnson	89.0
41 Pulaski	81.7	87 Hendricks	89.5
42 Lawrence	82.0	88 Hamilton	89.6
43 Allen	82.1	88 Dearborn	89.6
44 Montgomery	82.2	90 Dubois	89.7
44 Bartholomew	82.2	91 Warrick	89.9
46 Starke	82.3	92 Hancock	91.0
		Indiana	80.6

\*The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Prenatal Care Began in First Trimester, White, Indiana Residents, 1995-2004

RANK	COUNTY	PERCENT*	RANK	COUNTY	PERCENT*
1	LaGrange	48.2	45	Crawford	82.8
2	Adams	64.1	45	White	82.8
3	Elkhart	67.4	49	Ripley	83.0
4	Daviess	69.4	50	Clay	83.1
5	Clinton	73.4	51	Jasper	83.2
6	Noble	74.2	52	Perry	83.3
7	Parke	75.8	53	Fayette	83.4
8	Jay	76.0	53	Lake	83.4
9	Cass	76.4	55	Brown	83.6
10	LaPorte	77.2	55	Vigo	83.6
11	Scott	77.6	57	Union	83.7
12	Switzerland	78.0	58	Morgan	84.0
13	Steuben	78.2	59	Putnam	84.5
14	Grant	78.4	59	Warren	84.5
15	Kosciusko	78.5	59	Knox	84.5
16	Owen	78.8	62	Madison	84.6
17	Decatur	79.2	62	Floyd	84.6
18	Clark	79.4	64	Shelby	84.7
18	Jennings	79.4	65	Sullivan	84.8
20	Wayne	79.7	66	Allen	84.9
20	Jackson	79.7	67	Benton	85.0
22	Washington	79.8	67	Carroll	85.0
23	Martin	79.9	69	Tippecanoe	85.6
24	Marshall	80.2	70	Franklin	85.7
25	Howard	80.3	71	Tipton	86.0
26	Miami	80.4	72	Blackford	86.2
27	DeKalb	80.5	73	Huntington	86.3
27	Jefferson	80.5	74	Gibson	86.6
29	Wabash	80.6	75	Harrison	86.7
30	Newton	80.7	75	Whitley	86.7
30	Orange	80.7	77	Pike	87.1
32	Greene	81.1	78	Boone	87.2
32	Vermillion	81.1	79	Wells	87.3
34	Fulton	81.2	80	Spencer	87.6
35	Porter	81.3	81	Vanderburgh	87.7
36	Fountain	81.4	82	Delaware	87.9
37	Pulaski	81.7	83	Posey	88.0
38	Marion	81.9	84	Henry	88.5
39	Monroe	82.0	85	Ohio	89.0
40	Lawrence	82.2	86	Johnson	89.1
40	St. Joseph	82.2	87	Hendricks	89.6
42	Bartholomew	82.3	88	Dubois	89.7
43	Montgomery	82.4	88	Hamilton	89.7
44	Starke	82.5	90	Dearborn	89.9
45	Rush	82.8	91	Warrick	90.0
45	Randolph	82.8	92	Hancock	91.0
				Indiana	82.2

\*The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Prenatal Care Began in First Trimester, Black, Indiana Residents, 1995-2004

(Counties with 20 or more mothers who received prenatal care  
in the first trimester for the 10 combined years)

RANK	COUNTY	PERCENT*
1	Elkhart	49.5
2	Cass	51.2
3	Kosciusko	56.9
4	LaPorte	58.3
5	Miami	58.7
6	Grant	61.9
7	St. Joseph	62.9
8	Wayne	63.1
9	Howard	63.5
10	Montgomery	66.0
10	Clark	66.0
12	Allen	66.6
13	Monroe	68.2
13	Bartholomew	68.2
15	Madison	68.3
15	Lake	68.3
17	Marion	68.4
18	Floyd	69.9
19	Dearborn	70.5
20	Gibson	71.0
21	Johnson	71.3
22	Porter	72.0
23	Fayette	72.3
23	Vigo	72.3
25	Vanderburgh	73.7
26	Jefferson	73.8
27	Shelby	74.0
28	Posey	75.0
28	Delaware	75.0
30	Tippecanoe	76.5
31	Knox	80.0
32	Hendricks	82.2
33	Hamilton	82.3
34	Warrick	84.6
35	Putnam	84.8
36	Henry	89.5
37	Hancock	96.3
	Indiana	67.6

\*The values are percentages of live births and do not include the unknowns.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Low Birthweight\*, All Races, Indiana Residents, 1995-2004

RANK	COUNTY	PERCENT	RANK	COUNTY	PERCENT
1	Marion	9.1	43	Switzerland	7.3
2	Lake	8.9	48	Noble	7.2
3	Sullivan	8.8	48	Starke	7.2
3	Grant	8.8	48	Pulaski	7.2
5	Pike	8.7	51	Jennings	7.1
5	Scott	8.7	51	Warrick	7.1
7	Crawford	8.5	51	Cass	7.1
8	Delaware	8.4	51	Brown	7.1
8	Madison	8.4	51	Putnam	7.1
10	Allen	8.3	56	Franklin	7.0
11	Ohio	8.2	56	Jay	7.0
11	Fayette	8.2	56	Henry	7.0
11	Parke	8.2	56	Lawrence	7.0
14	Knox	8.1	60	Posey	6.9
14	Morgan	8.1	60	Monroe	6.9
14	Vanderburgh	8.1	60	Dearborn	6.9
17	Martin	8.0	63	Clay	6.8
17	Shelby	8.0	63	Bartholomew	6.8
19	Jackson	7.9	63	Miami	6.8
20	Wayne	7.8	63	Whitley	6.8
20	Greene	7.8	63	Elkhart	6.8
20	Vigo	7.8	63	Johnson	6.8
23	Randolph	7.7	69	Daviess	6.7
23	Vermillion	7.7	69	Washington	6.7
23	Blackford	7.7	69	White	6.7
23	Clark	7.7	69	Kosciusko	6.7
23	St. Joseph	7.7	73	Marshall	6.6
23	Gibson	7.7	73	Fulton	6.6
29	Fountain	7.6	73	Boone	6.6
29	Decatur	7.6	76	Wells	6.5
29	LaPorte	7.6	76	Hamilton	6.5
32	Orange	7.5	78	Owen	6.4
32	Steuben	7.5	79	Hancock	6.3
32	Jefferson	7.5	79	Tippecanoe	6.3
32	Howard	7.5	79	Dubois	6.3
32	Spencer	7.5	82	Porter	6.2
32	Floyd	7.5	83	Jasper	6.1
32	Perry	7.5	84	Benton	6.0
32	Rush	7.5	85	Carroll	5.9
32	Montgomery	7.5	86	DeKalb	5.8
41	Wabash	7.4	86	Newton	5.8
41	Harrison	7.4	86	Hendricks	5.8
43	Clinton	7.3	89	Warren	5.7
43	Huntington	7.3	89	Adams	5.7
43	Tipton	7.3	91	LaGrange	5.3
43	Ripley	7.3	92	Union	4.5
				Indiana	7.7

\*Birthweight less than 2,500 grams.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Low Birthweight\*, White, Indiana Residents, 1995-2004

RANK	COUNTY	PERCENT	RANK	COUNTY	PERCENT
1	Scott	8.7	47	Cass	7.1
1	Pike	8.7	47	Starke	7.1
3	Sullivan	8.6	47	Warrick	7.1
3	Crawford	8.6	47	Brown	7.1
5	Ohio	8.3	51	Franklin	7.0
6	Grant	8.2	51	Henry	7.0
6	Parke	8.2	51	Floyd	7.0
6	Fayette	8.2	51	Jay	7.0
6	Morgan	8.2	51	Putnam	7.0
10	Knox	8.0	51	Lawrence	7.0
10	Shelby	8.0	57	Miami	6.9
10	Jackson	8.0	57	Clay	6.9
13	Martin	7.9	57	Lake	6.9
14	Delaware	7.8	60	Posey	6.8
14	Madison	7.8	60	Dearborn	6.8
14	Randolph	7.8	60	Whitley	6.8
14	Greene	7.8	63	Monroe	6.7
18	Vermillion	7.7	63	Daviess	6.7
18	Blackford	7.7	63	Washington	6.7
20	Fountain	7.6	63	White	6.7
20	Gibson	7.6	63	Johnson	6.7
20	Wayne	7.6	63	Kosciusko	6.7
20	Decatur	7.6	63	LaPorte	6.7
20	Vanderburgh	7.6	63	Bartholomew	6.7
25	Vigo	7.5	71	Marshall	6.6
25	Steuben	7.5	71	Boone	6.6
25	Orange	7.5	71	St. Joseph	6.6
25	Marion	7.5	74	Wells	6.5
25	Spencer	7.5	74	Fulton	6.5
30	Perry	7.4	76	Elkhart	6.4
30	Montgomery	7.4	76	Hamilton	6.4
30	Rush	7.4	78	Hancock	6.3
33	Clinton	7.3	78	Owen	6.3
33	Wabash	7.3	78	Dubois	6.3
33	Tipton	7.3	81	Tippecanoe	6.2
33	Switzerland	7.3	82	Jasper	6.1
33	Allen	7.3	82	Porter	6.1
33	Clark	7.3	84	Benton	6.0
33	Huntington	7.3	84	Carroll	6.0
33	Jefferson	7.3	86	Warren	5.8
33	Harrison	7.3	86	Hendricks	5.8
42	Ripley	7.2	86	DeKalb	5.8
42	Howard	7.2	89	Newton	5.7
42	Noble	7.2	90	Adams	5.6
42	Pulaski	7.2	91	LaGrange	5.3
42	Jennings	7.2	92	Union	4.3
				Indiana	7.0

\*Birthweight less than 2,500 grams.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Low Birthweight\*, Black, Indiana Residents, 1995-2004 (Counties with 20 or more infants with low birthweight for the 10 combined years)

RANK	COUNTY	PERCENT
1	Floyd	15.2
2	Delaware	14.4
3	Grant	14.0
3	Allen	14.0
5	Madison	13.7
6	LaPorte	13.5
7	St. Joseph	13.4
8	Marion	13.3
8	Lake	13.3
10	Elkhart	12.6
11	Howard	12.4
12	Clark	12.2
13	Vanderburgh	12.0
13	Vigo	12.0
15	Wayne	11.8
16	Monroe	11.6
17	Porter	10.2
18	Tippecanoe	10.1
19	Hamilton	6.3
	Indiana	13.2

\*Birthweight less than 2,500 grams.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007



## Very Low Birthweight\*, All Races, Indiana Residents, 1995-2004

(Counties with 20 or more infants with very low birthweight for the 10 combined years)

RANK	COUNTY	PERCENT	RANK	COUNTY	PERCENT
1	Pike	1.9	34	Floyd	1.3
2	Sullivan	1.8	34	Scott	1.3
2	Lake	1.8	34	Lawrence	1.3
4	Marion	1.7	34	Jennings	1.3
4	Parke	1.7	34	Fulton	1.3
4	Pulaski	1.7	34	Elkhart	1.3
4	Perry	1.7	34	Greene	1.3
8	Jay	1.6	50	Knox	1.2
8	Wayne	1.6	50	Cass	1.2
8	Vigo	1.6	50	Wabash	1.2
8	St. Joseph	1.6	50	Gibson	1.2
12	Vanderburgh	1.5	50	Boone	1.2
12	Rush	1.5	50	Monroe	1.2
12	Shelby	1.5	50	Hamilton	1.2
12	Allen	1.5	50	Huntington	1.2
12	LaPorte	1.5	58	Dearborn	1.1
12	Starke	1.5	58	Fountain	1.1
18	Grant	1.4	58	Posey	1.1
18	Clinton	1.4	58	Fayette	1.1
18	Franklin	1.4	58	Putnam	1.1
18	White	1.4	58	Johnson	1.1
18	Randolph	1.4	58	Jasper	1.1
18	Clark	1.4	58	Porter	1.1
18	Clay	1.4	58	Daviess	1.1
18	Jackson	1.4	58	Bartholomew	1.1
18	Madison	1.4	58	Carroll	1.1
18	Morgan	1.4	69	Dubois	1.0
18	Delaware	1.4	69	Kosciusko	1.0
18	Vermillion	1.4	69	Harrison	1.0
18	Henry	1.4	69	Wells	1.0
18	Decatur	1.4	69	Washington	1.0
18	Tipton	1.4	69	Whitley	1.0
18	Howard	1.4	69	Hendricks	1.0
34	Tippecanoe	1.3	69	Miami	1.0
34	Warrick	1.3	77	Hancock	0.9
34	Noble	1.3	77	DeKalb	0.9
34	Steuben	1.3	77	Jefferson	0.9
34	Orange	1.3	77	Owen	0.9
34	Montgomery	1.3	77	Adams	0.9
34	Marshall	1.3	82	Ripley	0.8
34	Spencer	1.3	82	LaGrange	0.8
34	Blackford	1.3			
				Indiana	1.4

\*Birthweight less than 1,500 grams.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

(Counties with 20 or more infants with very low birthweight for the 10 combined years)

RANK	COUNTY	PERCENT	RANK	COUNTY	PERCENT
1	Pike	1.9	42	Wabash	1.2
1	Sullivan	1.9	42	Marion	1.2
3	Parke	1.7	42	Allen	1.2
3	Pulaski	1.7	42	Cass	1.2
5	Perry	1.6	42	Spencer	1.2
5	Jay	1.6	42	Boone	1.2
5	Wayne	1.6	42	Floyd	1.2
8	Rush	1.5	42	Lake	1.2
8	Vigo	1.5	42	LaPorte	1.2
8	Shelby	1.5	42	Hamilton	1.2
8	Vanderburgh	1.5	42	Posey	1.2
12	Randolph	1.4	42	Gibson	1.2
12	Franklin	1.4	55	Elkhart	1.1
12	Morgan	1.4	55	Delaware	1.1
12	Clinton	1.4	55	Dearborn	1.1
12	Clay	1.4	55	Fountain	1.1
12	White	1.4	55	Monroe	1.1
12	Jackson	1.4	55	Huntington	1.1
12	Vermillion	1.4	55	Putnam	1.1
12	Tipton	1.4	55	Daviess	1.1
12	Henry	1.4	55	Johnson	1.1
12	Decatur	1.4	55	Porter	1.1
23	Starke	1.3	55	Jasper	1.1
23	Grant	1.3	55	Carroll	1.1
23	Orange	1.3	67	Bartholomew	1.0
23	Clark	1.3	67	Fayette	1.0
23	Madison	1.3	67	Kosciusko	1.0
23	Steuben	1.3	67	Dubois	1.0
23	Noble	1.3	67	Wells	1.0
23	Tippecanoe	1.3	67	Whitley	1.0
23	St. Joseph	1.3	67	Miami	1.0
23	Warrick	1.3	67	Hendricks	1.0
23	Blackford	1.3	67	Harrison	1.0
23	Lawrence	1.3	67	Washington	1.0
23	Marshall	1.3	67	Hancock	1.0
23	Scott	1.3	78	DeKalb	0.9
23	Howard	1.3	78	Jefferson	0.9
23	Fulton	1.3	80	Ripley	0.8
23	Jennings	1.3	80	Owen	0.8
23	Montgomery	1.3	80	Adams	0.8
23	Greene	1.3	80	LaGrange	0.8
42	Knox	1.2			
				Indiana	1.2

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

# Very Low Birthweight\*, Black, Indiana Residents, 1995-2004

(Counties with 20 or more infants with very low birthweight for the 10 combined years)

RANK COUNTY	PERCENT
1 Delaware	3.7
2 LaPorte	3.4
3 Lake	3.1
3 Allen	3.1
3 Vigo	3.1
6 Marion	2.9
6 Elkhart	2.9
8 St. Joseph	2.8
8 Howard	2.8
10 Grant	2.6
11 Clark	2.4
11 Madison	2.4
13 Vanderburgh	2.2
Indiana	2.9

\*Birthweight less than 1,500 grams.

Source: Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, 2007

## Glossary of Terms

**Age-Specific Birth Rate** - The number of live births for a specific age group for every 1,000 women in that age group.

**Birthweight** - The amount a liveborn infant weighs at birth.

**County of Occurrence** - The Indiana county where someone gave birth or died. The person may or may not be an Indiana resident.

**County of Residence** - For birth data, the county of residence is the mother's Indiana county of residence at the time she gave birth, regardless of where she gave birth. For death data, the county of residence is where the person lived when he or she died, regardless of where the death occurred.

**Ethnicity** - Births are based on the reported ethnicity of the mother. Infant deaths are based on the reported ethnicity of the infant. In Indiana, "Hispanic" is classified as an individual's ethnicity, not his or her race; all Hispanics are classified as either "white Hispanic", "black Hispanic", or "other Hispanic". Please see Preface for OMB standards regarding ethnicity.

**Fetal Mortality** - A death prior to a completed delivery of a fetus of 20 or more weeks gestation. The fetal death rate is calculated by taking fetal deaths divided by (fetal deaths plus live births) multiplied by 1,000.

**First Trimester** - The first three months of pregnancy.

**Infant Mortality** - The death of an infant less than one year old. The infant mortality rate is calculated by taking infant deaths divided by live births multiplied by 1,000.

**Kotelchuck Index** - The Kotelchuck Index is an Adequacy of Prenatal Care Utilization (APNCU) Index which attempts to characterize prenatal care (PNC) utilization on two independent and distinctive dimensions - namely adequacy of initiation of PNC and adequacy of received services (once PNC has begun). It utilizes month of initial PNC visit, number of visits, and gestational age in its calculations.

**Live Birth** - A live birth is any infant who breathes or shows any other evidence of life (such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles) after separation from the mother's uterus, regardless of the duration of gestation.

**Low Birthweight (LBW)** - Birthweight less than 2,500 grams (5 lb. 8 oz.).

**Neonatal Mortality** - The death of an infant less than 28 days old. The rate is calculated by taking the number of neonatal deaths divided by live births multiplied by 1,000.

**Occurrent Live Birth** - The live birth of an infant occurring in Indiana regardless of the mother's state of residence. The mother may or may not be an Indiana resident.

**Perinatal Mortality** - Perinatal deaths are fetal deaths plus neonatal deaths. The rate is calculated by taking (fetal deaths + neonatal deaths) divided by (fetal deaths + live births) multiplied by 1,000.

**Preterm Births** – Delivery of a liveborn infant prior to 37 weeks gestation. The Indiana State Department of Health, Epidemiology Resource Center, Data Analysis Team, uses the clinical estimate of gestation that is on the birth certificate. We do not calculate gestation based on last normal menses and date of birth, as the National Center for Health Statistics (NCHS) and some other states do. Therefore, our data may be slightly different than national data.

**Postneonatal Mortality** - The death of an infant 28 days to 364 days old. The rate is calculated by taking the number of postneonatal deaths divided by live births multiplied by 1,000.

**Race** - Births are based on the reported race of the mother. Infant deaths are based on the reported race of the infant. In this report, race is categorized as "white", "black", and "total". "Total" represents all races combined, which includes "white", "black", and "other". "Other" means all other races besides white and black, including unknown. In Indiana, "Hispanic" is classified as an individual's ethnicity, not his or her race. Please see definition of Ethnicity. Please see Preface for OMB standards regarding race.

**Ratio of Black to White Infant Mortality Rate** – Black infant mortality rate divided by white infant mortality rate. The ratio is unstable if the numerator or denominator is less than 20. The ratio can be calculated with neonatal and postneonatal mortality rates, also.

**Resident Live Birth** - The live birth of an infant whose mother's usual residence is in Indiana, regardless of where the birth occurred (inside Indiana or elsewhere).

**Smoked during Pregnancy** - This information is self-reported by the mother.

**Stable Rate** - A rate containing a minimum of 20 occurrences or events (e.g., births or deaths) per unit being examined (e.g., county or state).

**Unstable Rate** - When the numerator is less than 20, the rate is unstable. A small change in the numerator can lead to a large change in the rate from one year to the next. Some of the rates shown in this report are based on a small number of live births or deaths by age or race. The unstable rates are shown in this report, but we do not recommend comparing unstable rates. Unstable rates do not lend themselves to being used to make decisions.

**Very Low Birthweight (VLBW)** - Birthweight less than 1,500 grams (3 lb. 5 oz.).